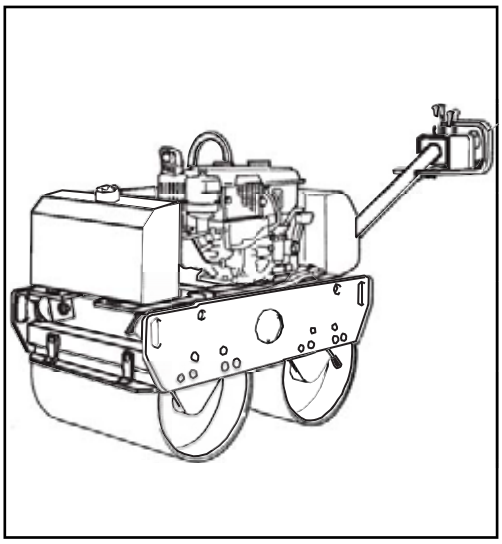
# BWR ROLLER




GB Operators Manual 4
US Operators Manual 12
F Manuel De L'Opérateur 20
E Manual del Operador 28
P Manual de Operação 36
NL Handleiding 44
DK Betjeningsvejledning 52
D Bedienungshandbuch 60
I Manuale Dell'Operatore 68
S Bruksanvisning 76
SF Käyttöohje 84
PL Instrukcja Obsługi 92
RUS Руководство для оператора 100
BG Оператор Ръчен 108
HUN Kezelõk Kézi 116



- Spare Parts Book 124
- Pièces détachées
- Libro Despiece
- Lista de Peças
- Onderdelen Boekje
- Reservedele Skrift
- Ersatzteilhandbuch
- Manuale dei ricambi
- Bruksanvisning
- Bruksanvisning
- Varaosaluettelo
- Lista Części Zamiennych
- Запасные части Книга
- Varuosade nimekiri
- Rezerves daļu saraksts
- Atsarginiu daliu sarašas
- Част Списък
- αντικατάσταση κομμάτια βιβλίο
- Část Barevný pruh
- Lista Pieselor de Schimb
- Részek Oldalra dől


870/10007/0

# EC DECLARATION OF CONFORMITY / DECLARATION CE DE CONFORMITE / DECLARACIÓN DE CONFORMIDAD CE / DECLARAÇÃO CE DE CONFORMIDADE / EG-VERKLARING VAN OVEREENSTEMMING / EF OVERENSSTEMMELSESERKLÆRING / EGKONFORMITÄTSERKLÄRUNG / DICHIARAZIONE CE DI CONFORMITÁ / EG-VERKLARING VAN OVEREENSTEMMING / EC SAMSVARSERKLÆRING / EY-YHDENMUKAISUUSILMOITUS

**GB** We, **Belle Group Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB,** hereby certify that if the product described within this certificate is bought from an authorised Belle Group dealer within the EEC, it conforms to the following EEC directives: 98/37/EC (This directive is a consolidation of the original machinery directive 89/392/EEC), Electromagnetic Compatability Directive 89/336/EEC (as amended by 92/31/EEC & 93/68 EEC). The low voltage directive 73/23/EEC, EN 292 Safety of machinery and associated harmonised standards, where applicable. Noise emissions conform to directive 2000/14/EC Annex VI, the notified body being **AV Technology Limited, AVTECH house, Birdhall Lane, Cheadle Heath, Stockport, Cheshire, SK3 0XU, GB.**

**F** Nous soussignons, **Belle Group Sheen UK, Sheen, Nr Buxton, Derbyshire, SK17 0EU, GB**, certifions que si le produit décrit dans ce certificat est acheté chez un distributeur autorisé Belle Group au sein de la CEE, il est conforme aux normes CEE ci-après: 98/37/CE (Cette norme est une codification des normes de la machine d'origine 89/392/CEE), Norme compatible pour l'électromagnisme 89/336/CEE (modifié par 92/31/CEE et 93/68/CEE). Caractéristiques basse tension 73/23/CEE, EN 292, Norme de sécurité des machines et des critères associés et configurés, si applicable. Niveau sonnore conforme à la norme 2000/14/CE Annex VI, l'état avisé étant **AV Technology Mimited, AVTECH House, Birhall Lane, Cheadle Heath, Stockport, Cheshire, SK3 0XU, GB.**

**E** La Sociedad, Belle Group Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK 17 OEU, GB, por el presente documento certifica que si el producto descrito en este certificado es comprado a un distribuidor autorizado de Belle Group en la CEE, este es conforme a las siguientes directivas: 98/37/CE de la CEE (Esta directiva consolida la directiva inicial sobre maquinaria 89/392/CEE), Directiva 89/336 CEE sobre Compatibilidad Electromagnética (según enmiendas 92/31/CEE y 93/68 CEE), Directiva sobre Bajo Voltaje 73/23/CEE, EN 292 de Seguridad de Maquinaria y Niveles armonizados estándares asociados donde sean aplicables. Emisiones Acústicas conformes a la Directiva 2000/14/EC Apéndice VI, siendo notificado el organismo AV Technology Limited, AVTECH House, Birdhall Lane, Cheadle Heath, Stockport, Cheshire, SK3 OXU, GB.

**P** O signatário, **Belle Group Sheen UK, Sheen, Nr Buxton, Derbyshire, SK 0EU, GB**, pelo presente, declara que se o produto descrito neste certificado foi adquirido a um distribuidor autorizado do Belle Group em qualquer país da UE, está em conformidade com o estabelecido nas seguintes directivas comunitárias: 98/37/EC (esta directiva é uma consolidação da directiva de maquinaria original 89/392/EEC), Directiva de Compatibilidade Electromagnética 89/336/EEC (conforme corrigido pelas 92/31/EEC & 93/68 EEC). A directiva de baixa voltagem 73/23/EEC, EN 292 Segurança da maquinaria e às normas harmonizadas afins se aplicáveis. As emissões acústicas estão em conformidade com a directiva 2000/14/EC Anexo VI, sendo o organismo notificador a **AV Technology Limited, AVTECH house, Birdhall Lane, Cheadle Heath, Stockport, Cheshire, SK3 0XU, GB.**

**NL** Ondergetekende, Belle Group Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK17 OEU, GB,verklaren hierbij dat als het product zoals beschreven in dit certificaat is gekocht van een erkende Belle Group dealer binnen de EEG, het voldoet aan de volgende EEG richtlijnen: 98/37/EC (Deze richtlijn is een opvolger van de orginele Machinerichtlijn 89/392/EEG), Electromagnetische Compatability Richtlijn 89/336/EEG ( geamendeerd door 92/31/EEG & 93/68 EEG). De Laagspannings Richtlijn 72/23/EEG, EN 292 Veiligheid van Machines en hieraan gekoppelde geharmoniseerde Standaarden, waar deze van toepassing is. Geluidsemissies volgens richtlijn 2000/14/EC Bijlage VI. Het contactorgaan is AV Technology Limited, AVTECH house, Birdhall Lane, Cheadle Heath, Stockport, Cheshire, SK3 OXU, GB

**DK** Vi, Belle Group Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB, erklærer hermed, at hvis det i dette certifikat beskrevne produkt er købt hos en autoriseret Belle Group forhandler i EU, er det i overensstemmelse med følgende EØF-direktiver: 98/37/EF, 73/23/EØF (som ændret ved 93/68/EØF), 89/336/EØF (som ændret ved 92/31/EØF), 93/68/EØF og tilknyttede, harmoniserede standarder, hvor relevant. Støjemissioner er i overensstemmelse med direktiv 2000/14/EF, Bilag VI, og det bemyndigede organ er AV Technology Limited, AVTECH House, Birdhall Lane, Cheadle Heath, Stockport, Cheshire, SK3 0XU, GB.

**D** Wir, Belle Group Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, Großbritannien, bestätigen hiermit, dass das in diesem Zertifikat beschriebene Produkt, wenn es von einem autorisierten Belle Group Händler innerhalb der europäischen Gemeinschaft gekauft wurde, folgenden EG-Richtlinien entspricht: 98/37/EG, 73/23/EG (geändert durch 93/68/EG), 89/336/EG (geändert durch 92/31/EG), 93/68/EG und, wenn zutreffend, den harmonisierten Normen. Die Geräuschemissionen entsprechen der Richtlinie 2000/14/EG Anhang VI - für die Bestätigung zuständig ist AV Technology Limited, AVTECH House, Birdhall Lane, Cheadle Heath, Stockport, Cheshire, SK3 0XU, Großbritannien.

**I** Il Gruppo Belle Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB, certifica che il prodotto descritto nel presente certificato è acquistato da un concessionario autorizzato del gruppo Belle nell'ambito CEE e che è pienamente conforme alle seguenti direttive CEE: 98/37/EC, 73/23/EEC (emendamento 93/68/CEE), 89/336/EEC (emendamento 92/31/CEE), 93/68/CEE e relativi standard armonizzati. Emissioni acustiche conformi alla direttiva 2000/14/EC Allegato VI con relativa notifica all'ente AV Technology Limited, AVTECH house, Birdhall Lane, Cheadle Heath, Stockport, Cheshire, SK3 0XU, GB.

**S** Undertecknade, Belle Group Sheen UK, Sheen, Nr Buxton, Derbyshire, SK17 0EU, Storbritannien, intygar härmed att en produkt beskriven i detta certifikat som köps från en godkänd Belle Group återförsäljare inom EU stämmer överens med följande EG-direktiv: 98/37/EG, 73/23/EG (ändrat genom 93/68/EEC), 89/336/EG (ändrat genom 92/31/EG), 93/68/EG och tillhörande harmoniserade standarder i tillämpliga fall. Bullernivåerna överensstämmer med direktiv 2000/14/EG Bilaga VI, och anmälningsorgan är AV Technology Limited, AVTECH house, Birdhall Lane, Cheadle Heath, Stockport, Cheshire, SK3 0XU, Storbritannien.

**NO** Vi, **Belle Group Sheen UK, Sheen, Nr Buxton, Derbyshire, SK17 0EU, GB**, bekrefter med dette at det produktet som står beskrevet i denne erklæringen er kjøpt fra en autorisert Belle Group forhandler innen EØF, og at det oppfyller følgende direktiver: 98/37/CE dette direktivet er et sammendrag av det opprinnelige maskindirektivet 89/392/EØF), Det elektromagnetisk kompatabiltets-direktivet 89/336/EØF (som endret av 92/31/EØF og 93/68/EØF). Lavspenningsdirektivet 73/23/EØF, EN 292, Sikkerhet til maskineri og tilhørende harmoniserte standarder, hvor atuelt. Støynivået oppfyller kravene til direktiv 2000/14/EC, Tillegg VI, aktuelt organ er **AV Technology Limited, AVTECH House, Birhall Lane, Cheadle Heath, Stockport, Cheshire, SK3 0XU, GB.**

**SF** Me, **Belle Group Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB,** ilmoitamme täten, että jos tässä todistuksessa kuvattu tuote on ostettu valtuutetulta Belle Groupin myyjältä ETY:n alueella, se on yhdenmukainen seuraavien ETY-direktiivien kanssa: 98(37/EY (Tämä direktiivi on yhdistelmä alkuperäisestä konedirektiivistä 89/392/ETY, sähkömagneettisen yhteensopivuuden direktiivistä 89/336/ETY, korjauksineen 92/31/ETY ja 93/68/ETY), matalajännitedirektiivistä 73/23/ETY, koneturvallisuusstandardista EN 292 ja siihen liittyvistä yhdenmukaistetuista standardeista, tapauksen mukaan. Melupäästöt ovat yhdenmukaisia direktiivin 2000/14/EY liitteen VI kanssa, asianomaisen elimen ollessa **AV Technology Limited, AVTECH House, Birdhall Lane, Cheadle Heath, Stockport, Cheshire, SK3 0XU, GB**.

| | | | | | |
|---|---|---|---|---|---|
| **PRODUCT TYPE** ..... | **TYPE DE PRODUIT** ..... | **TIPO DE PRODUCTO** ..... | **TIPO DE PRODUTO:** ..... | **PRODUCTTYPE**..... | **PRODUKTTYPE**..... |
| **MODEL** ..... | **MODELE**..... | **MODELO** ..... | **MODELO:**..... | **MODEL** ..... | **MODEL** ..... |
| **SERIAL No**..... | **N° DE SERIE** ..... | **Nº DE SERIE** ..... | **NO. DE SÉRIE:** ..... | **SERIENUMMER** ..... | **SERIENR.** ..... |
| **DATE OF MANUFACTURE**... | **DATE DE FABRICATION**..... | **FECHA DE FABRICACIÓN**.... | **DATA DE FABRIC**..... | **FABRICAGEDATUM** ..... | **FREMSTILLINGSDATO**..... |
| **SOUND POWER LEVEL**..... **MEASURED (GUARANTEED):** | **NIVEAU DE** ..... **PUISSANCE SONORE MESUREE (GARANTIE)** | **NIVEL DE** ..... **POTENCIA ACÚSTICA MEDIDO (GARANTIZADO)** | **NIVEL DE** ..... **POTÊNCIA DE SOM MEDIDO (GARANTIDO)** | **GEMETEN** ..... **GELUIDSSTERKTENIVEAU (GEGARANDEERD)** | **LYDEFFEKTNIVEAU** ..... **MÅLT (GARANTERET)** |
| **PRODUKTTYP** ..... | **TIPO PRODOTTO**..... | **PRODUKTTYP** ..... | **PRODUKTTYPE**..... | **TUOTETYYPPI**..... | |
| **MODELL**..... | **MODELLO**..... | **MODELL**..... | **MODELL**..... | **MALLI**..... | |
| **SERIENNR**..... | **SERIE N°** ..... | **SERIENR.** ..... | **SERIENR** ..... | **VALMISTUSNRO**..... | |
| **HERSTELLUNGSDATU**..... | **DATA DI FABBRICAZIONE**..... | **TILLVERKNINGSDATUM**..... | **PRODUKSJONSDATO**..... | **VALMISTUSPÄIVÄ**..... | |
| **SCHALLLEISTUNGSPEGEL** ... **GEMESSEN (GARANTIERT)** | **LIVELLO**..... **POTENZA SONORA MISURATA (GARANTITA)** | **LJUDSTYRKA**..... **UPPMÄTT (GARANTERAD)** | **LYDKRAFTNIVÅ**..... **MÅLT (GARANTERT)** | **ÄÄNENVOIMAKKUUDEN TASO**..... **MITATTU (TAATTU)** | |

Signed by:
Signature:
Medido por:
Assinado por:
Getekend door:
Uunderskrevetaf:
unterzeichnet vo:
Firmato da:
Undertecknat:
Signatur:
Allekirjoitus:

Ray Neilson

Managing Director - On behalf of BELLE GROUP (SHEEN) UK.
Le Directeur Général - Pour le compte de la SOCIETE BELLE GROUP (SHEEN) UK.
Director Gerente - En nombre de BELLE GROUP (SHEEN) UK.
Director-Geral - Em nome de BELLE GROUP (SHEEN) UK.
Algemeen Directeur - Namens BELLE GROUP (SHEEN) UK.
Administrerende direktør – På vegne af BELLE GROUP (SHEEN) UK.
Generaldirektor – Im auftrag von BELLE GROUP (SHEEN) UK.
Amministratore Delegato – Per conto di BELLE GROUP (SHEEN) UK.
V.D. – På vägnar av BELLE GROUP (SHEEN) UK.
Managing Director - på vegne av SOCIETE BELLE GROUP (SHEEN) UK.
Toimitusjohtaja - BELLE GROUP (SHEEN) UK:n puolesta.

Belle GROUP

852/10004/2

# US How To Use This Manual

This manual has been written to help you operate and service the 'BWR' Roller safely. This manual is intended for dealers and operators of the 'BWR ' Roller .

**Foreword**

The '***Machine Description***' section helps you to familiarise yourself with the machine's layout and controls.

The '***Environment***' section gives instructions on how to handle the recycling of discarded apparatus in an environmentally friendly way.

The '***General Safety***' and '***Health and Safety***' sections explain how to use the machine to ensure your safety and the safety of the general public.

The ***'Operating Instructions'*** section helps you with the setting up and use of the machine.

The '***Trouble Shooting***' guide helps you if you have a problem with your machine.

The '***Service & Maintenance***' section is to help you with the general maintenance and servicing of your machine.

**Directives with regard to the notations.**

Text in this manual to which special attention must be paid are shown in the following way:

**CAUTION** The product can be at risk. The machine or yourself can be damaged or injured if procedures are not carried out in the correct way.

**WARNING** The life of the operator can be at risk.

# US WARNING

**WARNING** Before you operate or carry out any maintenance on this machine YOU MUST READ and STUDY this manual.

**KNOW** how to safely use the unit's controls and what you must do for safe maintenance. (NB Be sure that you know how to switch the machine off before you switch on, in case you get into difficulty.)

**ALWAYS** wear or use the proper safety items required for your personal protection. If you have **ANY QUESTIONS** about the safe use or maintenance of this unit, ASK YOUR SUPERVISOR OR CONTACT: **BELLE GROUP (UK):** +44 (0) 1298 84606

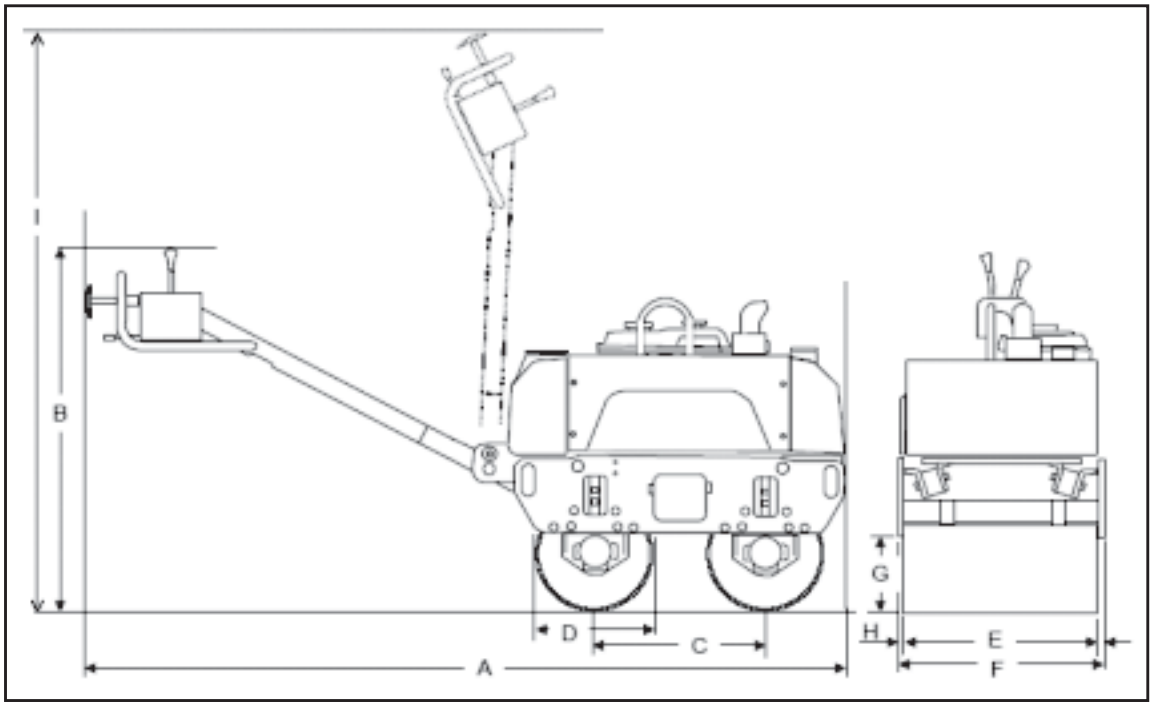
# US Contents


How to use this manual....12
Warning....12
Technical Data....13
Machine Description....14
General Safety....14
Health and Safety....15
Pre-Start Checks....15
Environment....15
Start & Stop Procedure....16
Operating the BWR Roller....17
Service & Maintenance....17 - 18
Long Term Storage....19
Warranty....19


*Belle Group reserves the right to change machine specification without prior notice or obligation.*

# Technical Data

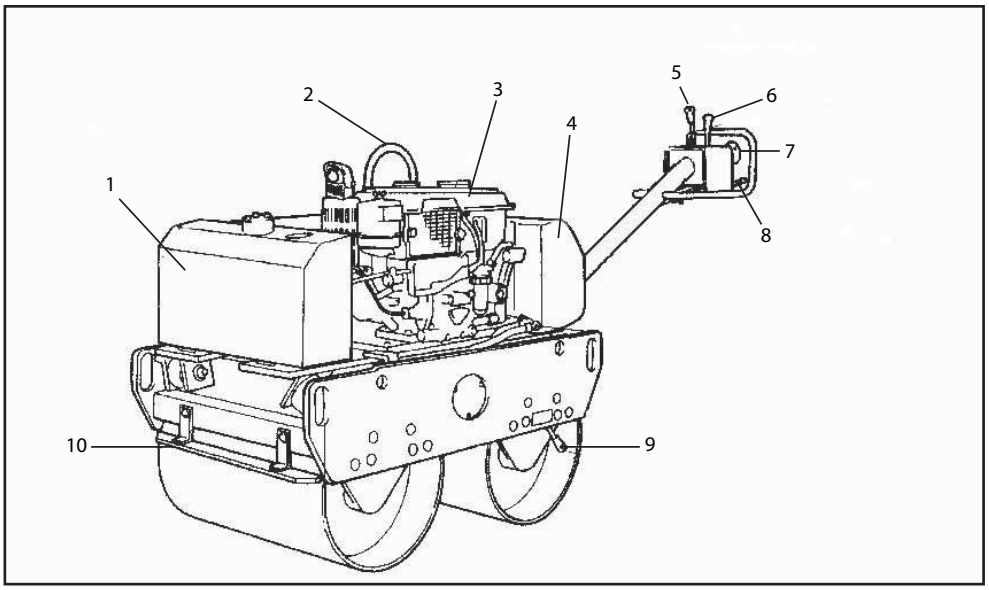
US




| **Model** | BWR 650 | BWR 650 | BWR 750 |
|---|---|---|---|
| Code | BWR650-E1 | BWR650-U1 | BWR750-G1 |
| Destinantion | EU | EU & USA | Non EU & USA |
| Weight - lbs | 1488 | 1488 | 1609 |
| A - Overall Length - in | 94 | 94 | 94 |
| B - Overall Height - in | 45.2 | 45.2 | 45.2 |
| C - Wheel Base - in | 22 | 22 | 22 |
| D - Drum Diameter - in | 16 | 16 | 16 |
| E - Drum Width - in | 25.5 | 25.5 | 25.5 |
| F - Overall Width - in | 27.5 | 27.5 | 27.5 |
| G - Curb Clearance - in | 10.2 | 10.2 | 10.2 |
| H - Lateral Overhang - in | 1 | 1 | 1 |
| I - Height at Storage - in | 70.8 | 70.8 | 70.8 |
| Travel Speed (F'wrd) - ft/min | 11.8 | 11.8 | 11.8 |
| Travel Speed (Rev) - ft/min | 5 | 5 | 5 |
| Vibration Frequency - v.p.m | 3,300 | 3,300 | 3,300 |
| Centrifugal Force - kN | 10.7 | 10.7 | 10.7 |
| Water Tank Capacity gal | 9.2 | 9.2 | 9.2 |
| Oil Tank Capacity gal | 4.7 | 4.7 | 4.7 |
| Engine | KUBOTA E75NB3 | KUBOTA EA300 | KUBOTA E75N |
| Type | 4-Cycle Water-Cooled | 4-Cycle Water-Cooled | 4-Cycle Water-Cooled |
| Fuel | Diesel | Diesel | Diesel |
| Fuel Tank Capacity gal | 1.26 | 1.24 | 1.24 |
| Rated Output - rpm | 5.3. | 5.3 | 5.3 |
| Max. Output - rpm | 6.4 | 6.4 | 6.4 |
| Starting System | Electric | Electric | Crank Handle |

** Minimum level to EN500 Part 4*

# US Machine Description




1. Hydraulic Oil Tank.
2. Hook.
3. Engine.
4. Water Tank.
5. Forward / Reverse Lever.
6. Vibration Lever.
7. Safety Lever For Reverse Motion.
8. Throttle Lever
9. Parking Brake
10. Scraper

# US General Safety

For your own personal protection and for the safety of those around you, please read and ensure you fully understand the following safety information. It is the responsibility of the operator to ensure that he/she fully understands how to operate this equipment safely. If you are unsure about the safe and correct use of the 'BWR' Roller, consult your supervisor or Belle Group.

**CAUTION** Improper maintenance can be hazardous. Read and Understand this section before you perform any maintenance, service or repairs.

- This machine must only be used for its intended purpose.
- This machine must be operated only by well-trained personnel
- The owner of this machine must observe, and train the user of the machine to observe, the effective Labor Protection Regulation in the country of application.
- Use a suitable lifting equipment to lift the machine.
- This machine must be operated on the ground where stability is guaranteed. When working near the rim of excavated trenches, use the machine properly so that the machine may not collapse or fall down.
- If the surface to be compacted is on a slope, great care must be taken when controlling the machine's direction of travel. Always work up and down a slope, not across.
- Cordon off the work area and keep members of the public and unauthorized personnel at a safe distance.
- Personal Protective Equipment (PPE) must be worn by the operator whenever this equipment is being used (see Health & Safety)
- Make sure you know how to safety switch this machine OFF before you switch it ON in case you get into difficulty.
- Always switch OFF the engine before servicing it.
- During use the engine becomes very hot, allow the engine to cool before touching it.
- Never leave the engine running and unattended.
- Never remove or tamper with any guards fitted, they are there for your protection. Always check guards for condition and security. If any are damaged or missing, DO NOT USE0THE MACHINE until the guard has been replaced or repaired.
- Do not operate the machine when you are ill, feeling tired, or when under the influence of alcohol or drugs.
- This machine is designed to eliminate the possible risks arising from the use of it. However, risks DO reside, and these residual risks are not clearly recognizable, and may cause personal injury or property damage, and possible death. If such unpredictable and unrecognizable risks become apparent, the machine must be stopped immediately, and operator or his supervisor must take appropriate measure to eliminate such risks. It is sometimes necessary that the manufacturer must be informed of such event for future counter measuring.

**Fuel Safety**

**CAUTION** Fuel is flammable. It may cause injury and property damage. Shut down the engine, extinguish all open flames and do not smoke while filling the fuel tank. Always wipe up any spilled fuel.

- Before refuelling, switch off the engine and allow it to cool.
- When refuelling, DO NOT smoke or allow naked flames in the area.
- When refuelling, use proper funnel, and avoid spilling over the engine.
- Spilt fuel must be made safe immediately, using sand. If fuel is spilt on your clothes, change them.
- Store fuel in an approved, purpose made container away from heat and ignition source.

# Health & Safety

US

**Vibration**
Some vibration from the compaction operation is transmitted through the handle to the operator's hands. The Belle Group 'Minipac' has been specifically designed to reduce hand/arm vibration levels. Refer to Technical Data section for vibration levels and usage times (recommended maximum daily exposure time). **DO NOT** exceed the maximum usage times.

**PPE (Personal Protective Equipment).**
Suitable PPE must be worn when using this equipment i.e. Safety Goggles, Gloves, Ear Defenders, Dust Mask and Steel Toe capped footwear (with anti-slip soles for added protection). Wear clothing suitable for the work you are doing. Always protect skin from contact with concrete.

**Dust.**
The compaction process can produce dust, which may be hazardous to your health. Always wear a mask that is suited to the type of dust being produced.

**Fuel.**
Do not ingest fuel or inhale fuel vapors and avoid contact with your skin. Wash fuel splashes immediately. If you get fuel in your eyes, irrigate with copious amounts of water and seek medical attention as soon as possible.

**Exhaust Fumes.**
Do not operate your 'BWR' Roller indoors or in a confined space, make sure the work area is adequately ventilated.

**WARNING** The exhaust fumes produced by this equipment are highly toxic and can kill!

# Pre-start Checks

US

**Pre start-up inspection.**
The following Pre-start-up inspection must be performed before the start of each work session or after every four hours of use, whichever is first. Please refer to the service section for detailed guidance. If any fault is discovered, the 'MPC300' must not be used until the fault is rectified.

1. Thoroughly inspect the machine for signs of damage.
2. Check hoses, filler openings, drain plugs and any other areas for signs of leakage. Fix any leaks before operating.
3. Check the engine oil level and top up as necessary.

3-1. Place the machine on a level surface, and chack the oil level of the engine.

3-2. Remove the oil gauge, and observe that the oil is up to the rim of the filler port. Use proper engine oil with the proper viscosity (SAE 10W-30 recommended)

4. Check the engine fuel level and top up as necessary. Use clean fuel. Use of contaminated fuel may damage the fuel system.
5. Check the Air Filter is clean. Excessive dirt/dust accumulation within the filter element will cause erratic engine operation. Clean the air filter element when it is contaminated. (See Servicing Section)
6. Check the function of Operators Controls. Make sure that the Drive lever, Vibration lever, Throttle lever, Parking Lever, and the safety device for the reverse motion moves smoothly.

# Environment

US

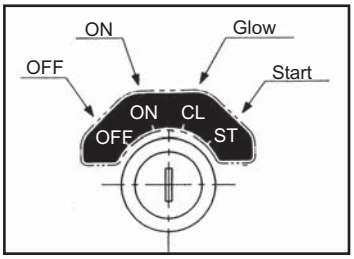
**Safe Disposal.**
Instructions for the protection of the environment. The machine contains valuable materials. Take the discarded apparatus and accessories to the relevant recycling facilities.

| Component | Material |
|---|---|
| Operator Handle | Steel |
| Main Frame | Steel |
| Hydraulic Oil Tank | Steel |
| Water Tank | Poly-Ethylene |
| Cover | Poly-Ethylene |
| Hydraulic Pump | Steel and Aluminium |
| Hydraulic Motor | Steel |
| Engine | Steel and Aluminium |
| Various parts | Steel, Aluminium & Rubber |

# US Start / Stop Procedure

**CAUTION** DO NOT let your hands off from the Starting Handle during the Starting procedures.

Before starting the engine, make sure that the Drive Lever is at Neutral, Vibration Lever is at OFF, and the Parking Lever is at ON position.




1. Open the fuel tap at the engine.
2. Move the Throttle Lever at the Operation Handle to START position.

**3. Start the Engine – Electric Start**

3a. Turn the Key Switch at the Throttle Lever to ST (Start) position, and hold it until the engine starts.

3b. When the ambient temperature is low, move the key to GL (Glow) position, and hold it for approximately 10 seconds. Then move the Key to ST (Start) position and hold it until the engine starts.

3c. After the engine has been started, make sure that the key is set to ON position during the operation. (Setting the Key Switch to OFF position would not allow the generator to charge the battery.)

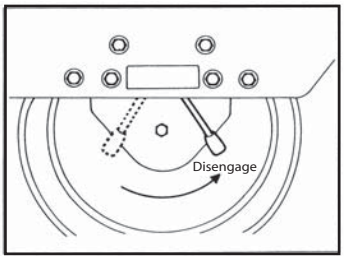
**4. Start the Engine – Manual Start**

4a. Insert the Starting Handle to the starting bracket provided at the engine.

4b. While pulling the Decompression Lever with your left hand, rotate the Starting Handle slowly until you hear the sound of fuel being injected.

4c. Release the Decompression Lever, and turn the Starting Handle with more force to start the engine.

5. Move the Throttle Lever to LOW position, and let the engine run at idle for a few minutes to warm up.
6. After the engine has warmed up, the machine is ready for operation.
7. Move the throttle lever to the high speed “H” position quickly to prevent damage from occurring to the clutch. The “Full Throttle” position of this machine has been preset at the factory to achieve optimum machine performance. DO NOT alter this setting since premature wear or tear can result, and both engine and machine warranty will be automatically voided.
8. Move the Parking Brake Lever to the right to disengage it.




**NOTE:** Negligence to disengage the Parking Brake before attempting to drive the machine forward or reverse will result in the severe damage to the parking brake mechanism as well as the drive system.

**9. Operators Control**

**9a. Throttle Lever**

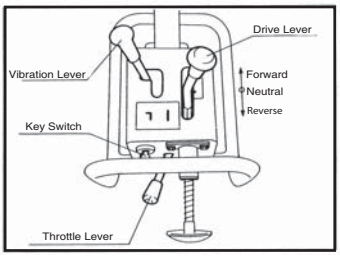
Always keep the Throttle Lever at High position during the operation. Do not attempt to alter the travel speed by changing the engine revolution.

**9b. Drive Lever**

Move the Drive Lever forward to drive the machine forward. For reverse motion, move the lever backward.

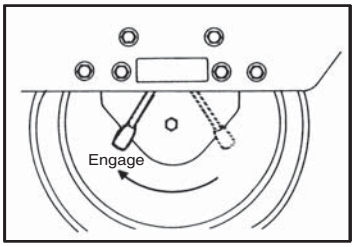
**9c. Vibration Lever**

By shifting the Vibration Lever to ON position, the vibration mechanism will be engaged, and produce the vibration.




**10. Stopping the Engine**

11. In preparation for stopping the engine, move the throttle lever to LOW position.
12. Allow the engine to idle for 1-3 minutes.
13. Move the Throttle Lever to STOP position to stop the engine. Then, set the Key Switch to “OFF” position.
    The buzzer will sound when the Key Switch is set to ON while the engine is stopped.
14. Close the Fuel tap
15. Apply parking brake by swinging the Parking Brake Lever to the left.



# Operating the BWR-Rollers US

· **Having carried out the checks listed in the 'pre start' section, you may start the engine.**
The Belle Group BWR-Series Hand-Guided Rollers are fitted with a centrifugal clutch; this allows the engine to run at idle without driving the Hydraulic pump.
As the engine speed is increased the clutch will engage and the engine will drive the Hydraulic Pump to send the hydraulic power to drive the drums, and to drive the vibration mechanism as well. To avoid any damage to the centrifugal clutch, move the throttle lever quickly from L to H position. For correct operation, the engine speed should be set to maximum during the compaction operation

· Avoid operating the machine on a fully compacted, hard, or non-yielding surface. Otherwise, the bearings and other mechanical components will be damaged, and the life of the machine will be greatly reduced.

· When working on a steep slope, pay extra care in operating the machine so that the machine may not collapse or fall down. Always work up or down the slop. Do not work across the slope.

· When the machine is going reverse, make sure not to stand behind the Operation Handle. Always walk along the Operation Handle and face toward the direction of travel.

· **Lifting**
Where it is necessary to use lifting equipment to position the BWR, make sure the lifting equipment has a WLL (Working Load Limit) suitable for the machine's weight (see specification chart on page 5 or the machine number plate.) Attach suitable chains or slings ONLY0to the lifting point Provided at the center of the machine (One-Point Hook) or at each corner of the machine (Lifting Eyes).

· **TRANSPORTATION**
**Transportation on a vehicle.**
Make sure to lock the Handle and use proper slopes of sufficient width, length, and strength on loading to and unloading from the vehicle.

**CAUTION** The Operation Handle may move suddenly and irrationally during the loading and unloading. Do not stand close to the operation handle to avoid any injury.

Apply the parking brake, and tie the machine firmly to the vehicle during the transportation.

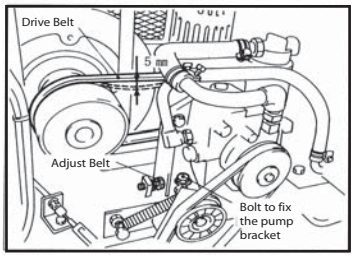
# Servicing US

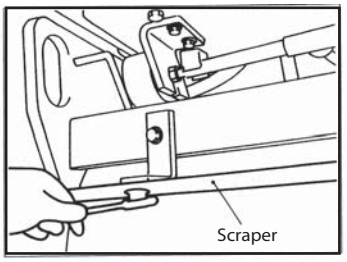
**Maintenance**
The Belle Group Hand-guided Roller, BWR-Series are designed to give many years of trouble free operation. It is, however, important that the simple regular maintenance listed in this section is carried out. It is recommended that an approved Belle Group dealer carry out all major maintenance and repairs. Always use genuine Belle Group replacement parts, the use of spurious parts may void your warranty.
Before any maintenance is carried out on the machine, switch off the engine and disconnect the HT lead from the spark plug.
Always set the machine on level ground to ensure any fluid levels will be correctly read. Only use recommended oils (see chart in the next page).
Make sure that the Operation Handle is securely locked during the maintenance and/or repairs.

**Servicing the Engine**
Service the engine according to the engine manufacturer's specifications. Refer to the engine operation and maintenance manual.

**Maintenance: Every 8 hours or daily**
1. Check for loose bolts and nuts, retighten if necessary.
2. Check and clean the air filter element, re-lube the element in accordance with the engine manufacturer's recommendations. If operating conditions are unusually dusty and severe,0 filter element cleaning should be done more frequently.

**Maintenance: Every 50 hours or weekly**
**1. Check for the tension of Drive Belt**
1a. Loosen four bolts, which fixes the Pump Bracket, and turn the Adjust Bolt until proper tension is achieved. The belt should deflect by 5mm at the center between Centrifugal clutch and pump pulley.
1b. Tighten four bolts at the Pump Bracket. When the belt is worn out or cracked, renew the belt.
**2. Adjust the clearance of Scraper**
2a. Remove the Scraper, and wipe of all the dirt, mud, and asphalt.
2b. Refit the Scraper to the Scraper Bracket, and fix it with suitable clearance from the drum.



# Servicing

**3. Water Tank**

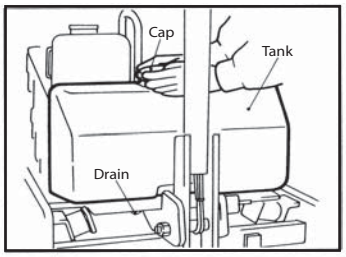
3a. Drain all the water, and clean the inside of the tank.

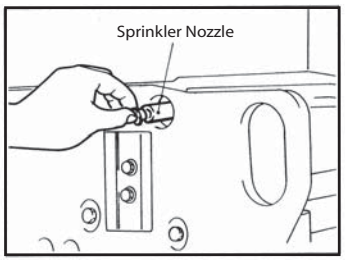
**4. Sprinkler Nozzle**

4a. Remove the Cap from the nozzle, and clean the inside of Sprinkler Nozzle.

**5. Moving Parts**

5a. Feed grease to the Rod End of the Drive/Vibration Cable.




**Maintenance: Every 100 hours**

**1. Vibration Clutch Mechanism**

1a. Check to confirm that the Vibration Clutch Mechanism works properly.

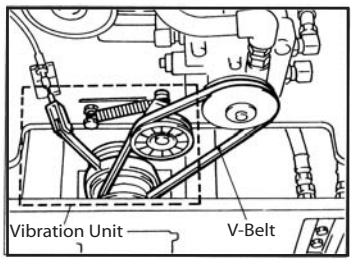
1b. Feed grease to the moving part.

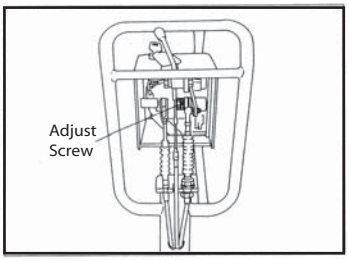
1c. Check the condition of V-belt. When it is worn out or cracked, renew the belt.

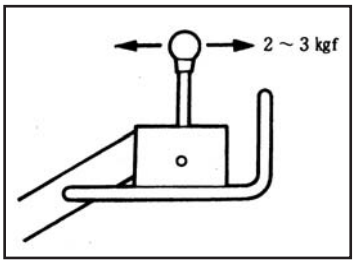
**2. Drive Lever**

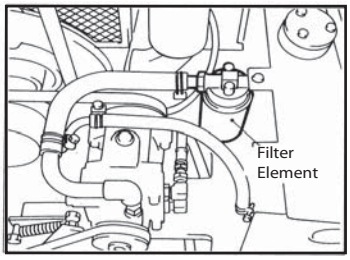
2a. Adjust the operation force of the Drive Lever from 2 to 3Kgf by turning the Adjust Nut.

2b. Feed grease to the moving part.




**Maintenance: Every 500 hours**

1. Replace the Hydraulic Oil Filter Element at every 500 hours of operation. Use Genuine Filter element.

**Maintenance: Every 800 hours**

1. Replace the Hydraulic Oil. Flush off the tank before supplying the new Hydraulic Oil. To vent the air in the hydraulic system, leave the Tank Cover open, and run the engine at its maximum speed without operating the Drive Lever and Vibration Lever for 10 minutes. Then, refit the Tank Cover.

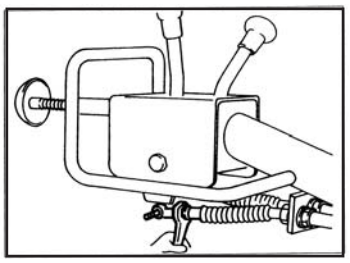
**ADJUSTING THE NEUTRAL SETTING OF DRIVE LEVER**

The neutral position of the Drive Lever may be shifted due to the vibration or wear of the drive cables. To adjust the Neutral Setting, follow the instruction as hereunder;

1. Place the machine on a level surface.
2. Make sure that the engine is turned off.
3. Remove the Nut which fix the Rod End of Drive Cable to the Drive Lever.

**WARNING** Do not attempt to start the engine when this nut is off its position. Machine may move suddenly and irrationally without the capability of being controlled with the Drive Lever, which may cause severe injury or property damage.

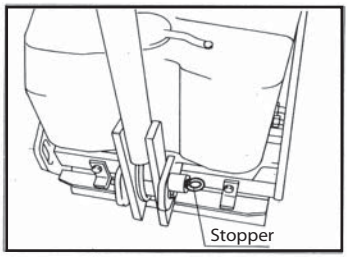
4. Loosen the Lock Nut at the Rod End.
5. Turn the Rod End either clockwise or counterclockwise depending upon the direction of shifted neutral position.
6. Refit the Rod End to the Drive Wire, and secure it with nut.
7. Start the engine, and increase the engine revolution to maximum. Observe to see if the neutral position has been properly adjusted.
8. If not, stop the engine, remove the nut, and repeat the procedure 5 to 7 until the neutral position is properly set.
9. When the neutral position is correctly adjusted, apply Loctite to the Nut, which fix the Rod End, and tighten it. Then, tighten the Lock Nut at the rod end.



# Long Term Storage

US

1. For long-term storage, empty the fuel from the Fuel Tank by either sucking the remaining fuel out from the Fuel Inlet port or from the Fuel Filter after the filter cup has been removed.
2. Clean the Air Cleaner Element.
3. Clean-up the oil and dust accumulation on all rubber parts.
4. Clean the base plate and apply a light coating of oil to prevent rust formation.
5. Cover the machine and store it in a dry place.
6. The Operation Handle can be stood up for storage. Pull the Stopper, and raise the handle. Make sure that the Stopper securely holds the Operation Handle.




# Warranty

US

Your new Belle Group BWR Roller is warranted to the original purchaser for a period of one-year (12 months) from the original date of purchase.

The Belle Group warranty is against defects in design, materials an workmanship.

The following are not covered under the Belle Group warranty:
1. Damage caused by abuse, misuse, dropping or other similar damage caused by or as a result of failure to follow assembly, operation or user maintenance instructions.
2. Alterations, additions or repairs carried out by persons other than Belle Group or their recognised agents.
3. Transportation or shipment costs to and from Belle Group or their recognised agents, for repair or assessment against a warranty claim, on any machine.
4. Materials and/or labour costs to renew, repair or replace components due to fair wear and tear.

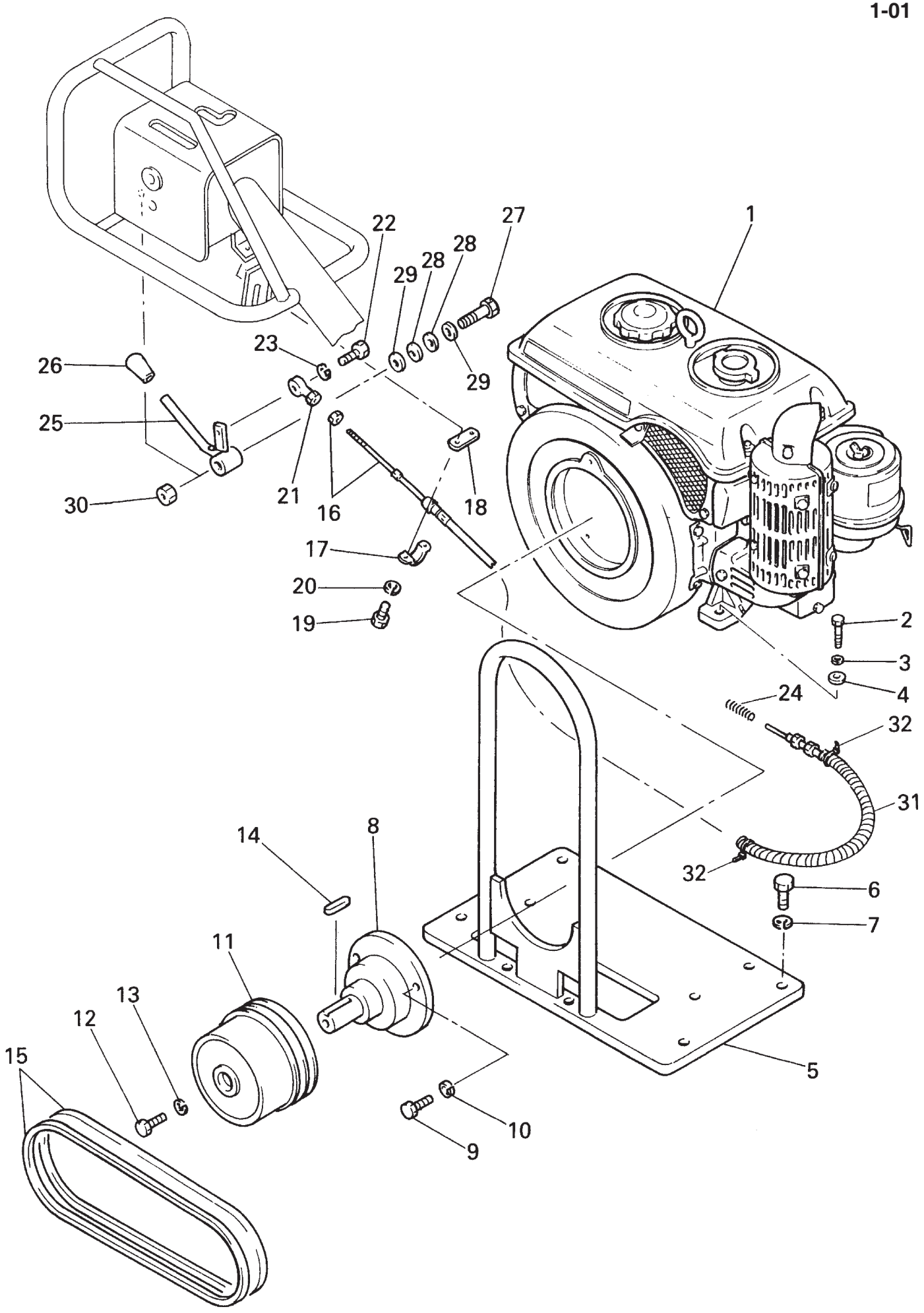
The following components are not covered by warranty.
- Engine air filter
- Engine spark plug

Belle Group and/or their recognised agents, directors, employees or insurers will not be held liable for consequential or other damages, losses or expenses in connection with or by reason of or the inability to use the machine for any purpose.

**Warranty Claims**
All warranty claims should firstly be directed to Belle Group, either by telephone, by Fax, by Email, or in writing.

**For warranty claims:**
**Belle Group Inc**
3959 Electric Road,
Roanoke, Suite 360
VA, 24018
USA

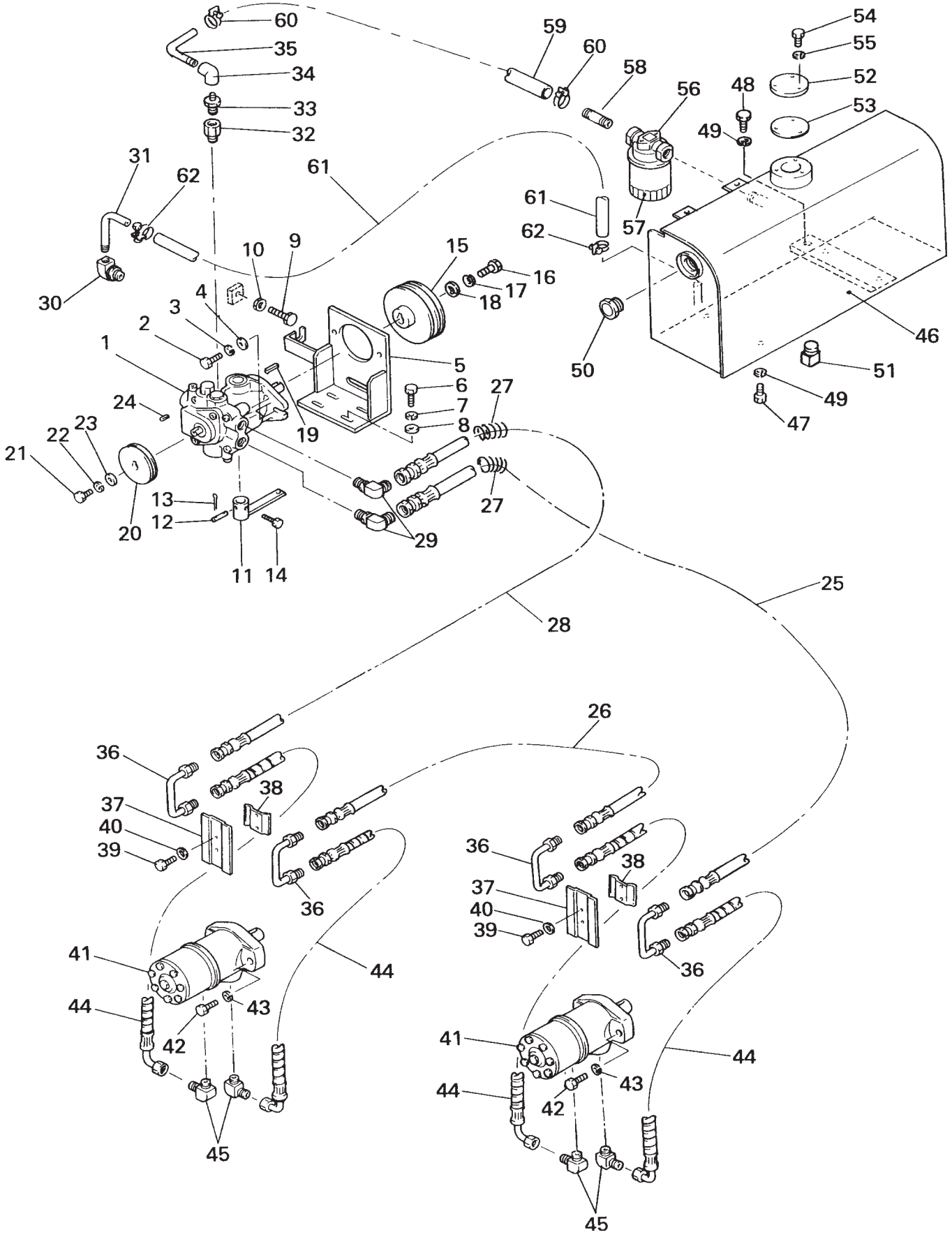
Tel : +1 540.345.5090, Fax: +1 540.345.5091
Email : sales@bellegroup.net


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
28
29
29
30
31
32
32

## Engine Unit 1-01

| Ref. No. | Part No. | Description | Désignation | Descripción | | Qty 650 E75NB3 | Qty 650 EA300 | Qty 750 E75N |
|---|---|---|---|---|---|---|---|---|
| 1 | 20-0048 | Engine | Moteur | Motor | Kubota E75NB3 | 1 | - | - |
| 1 | 20-0086 | Engine | Moteur | Motor | Kubota EA300 | - | 1 | - |
| 1 | 20-0049 | Engine | Moteur | Motor | Kubota E75N | - | - | 1 |
| 2 | 9-10004 | Bolt | Boulon | Perno | M10x35 | 4 | 4 | 4 |
| 3 | 4-1003 | Washer | Rondelle | Arandela | M10 | 4 | 4 | 4 |
| 4 | 4-1001 | Washer | Rondelle | Arandela | M10 | 4 | 4 | 4 |
| 5 | 919-99901 | Base | Embase | Base | | 1 | 1 | 1 |
| 6 | 9-10004 | Bolt | Boulon | Perno | M10x35 | 6 | 6 | 6 |
| 7 | 4-1003 | Washer | Rondelle | Arandela | M10 | 6 | 6 | 6 |
| 8 | 21-0146 | Shaft | Axe | Eje | | 1 | 1 | 1 |
| 9 | 9-10004 | Bolt | Boulon | Perno | M10x35 | 3 | 3 | 3 |
| 10 | 4-1003 | Washer | Rondelle | Arandela | M10 | 3 | 3 | 3 |
| 11 | 21-0147 | Clutch | Embrayage | Embrague | | 1 | - | 1 |
| 11 | 919-99820 | Clutch | Embrayage | Embrague | | - | 1 | - |
| 12 | 9-10001 | Bolt | Boulon | Perno | M10x30 | 1 | 1 | 1 |
| 13 | 4-1003 | Washer | Rondelle | Arandela | M10 | 1 | 1 | 1 |
| 14 | 919-99902 | Key | Clavette | Clave | 7x6x37 | 1 | 1 | 1 |
| 15 | 21-0148 | Belt | Courroie | Correa | 3V-315 | 2 | 2 | 2 |
| 16 | 919-99903 | Throttle Wire | Câble d'accélérateur | Cable del acelerador | | 1 | 1 | 1 |
| 17 | 919-99904 | Clamp | Collier | Abrazadera | | 1 | 1 | 1 |
| 18 | 919-99905 | Shim | Cale | Cuña | | 1 | 1 | 1 |
| 19 | 9-5003 | Bolt | Boulon | Perno | M5x10 | 2 | 2 | 2 |
| 20 | 4-5003 | Washer | Rondelle | Arandela | M5 | 2 | 2 | 2 |
| 21 | 3-5040 | Rod End | Tête de bielle | Cabeza de biela | | 1 | 1 | 1 |
| 22 | 9-5006 | Bolt | Boulon | Perno | M5x16 | 1 | 1 | 1 |
| 23 | 4-5003 | Washer | Rondelle | Arandela | M5 | 1 | 1 | 1 |
| 24 | 2-0043 | Spring | Ressort | Muelle | | 1 | 1 | 1 |
| 25 | 74-0003 | Throttle Lever | Manette d'accélérateur | Palanca de aceleración. | | 1 | 1 | 1 |
| 26 | 74-0004 | Cap | Chapeau | Tape | | 1 | 1 | 1 |
| 27 | 9-10007 | Bolt | Boulon | Perno | M10x50 | 1 | 1 | 1 |
| 28 | 4-6012 | Washer | Rondelle | Arandela | | 2 | 2 | 2 |
| 29 | 4-1001 | Washer | Rondelle | Arandela | M10 | 2 | 2 | 2 |
| 30 | 8-10001 | Nut | Ecrou | Tuerca | M10 | 1 | 1 | 1 |
| 31 | 919-99906 | Tube | Tube | Tubo | | 1 | 1 | 1 |
| 32 | 919-99907 | Cable Tie | Serre-câble | Unión cable | | 2 | 2 | 2 |

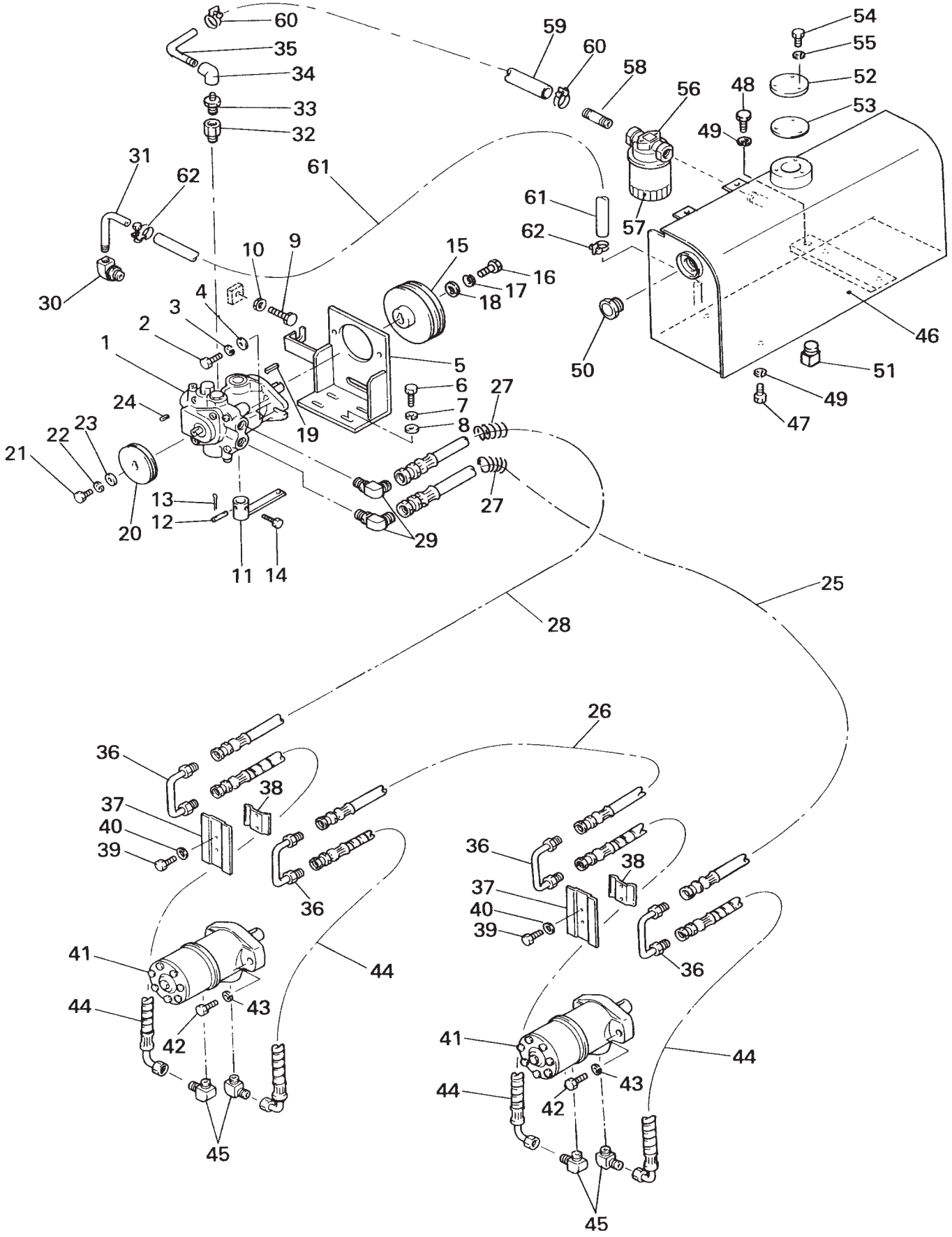
| Ref. No. | Part No. | Description | Descrição | Omschrijving | | Qty 650 E75NB3 | Qty 650 EA300 | Qty 750 E75N |
|---|---|---|---|---|---|---|---|---|
| 1 | 20-0048 | Engine | Motor | Motor | Kubota E75NB3 | 1 | - | - |
| 1 | 20-0086 | Engine | Motor | Motor | Kubota EA300 | - | 1 | - |
| 1 | 20-0049 | Engine | Motor | Motor | Kubota E75N | - | - | 1 |
| 2 | 9-10004 | Bolt | Perno | Bout | M10x35 | 4 | 4 | 4 |
| 3 | 4-1003 | Washer | Anilha | Afdichtring | M10 | 4 | 4 | 4 |
| 4 | 4-1001 | Washer | Anilha | Afdichtring | M10 | 4 | 4 | 4 |
| 5 | 919-99901 | Base | Plaat | Vloerplaat | | 1 | 1 | 1 |
| 6 | 9-10004 | Bolt | Perno | Bout | M10x35 | 6 | 6 | 6 |
| 7 | 4-1003 | Washer | Anilha | Afdichtring | M10 | 6 | 6 | 6 |
| 8 | 21-0146 | Shaft | Veio | As | | 1 | 1 | 1 |
| 9 | 9-10004 | Bolt | Perno | Bout | M10x35 | 3 | 3 | 3 |
| 10 | 4-1003 | Washer | Anilha | Afdichtring | M10 | 3 | 3 | 3 |
| 11 | 21-0147 | Clutch | Koppeling | Embraiagem | | 1 | - | 1 |
| 11 | 919-99820 | Clutch | Koppeling | Embraiagem | | - | 1 | - |
| 12 | 9-10001 | Bolt | Perno | Bout | M10x30 | 1 | 1 | 1 |
| 13 | 4-1003 | Washer | Anilha | Afdichtring | M10 | 1 | 1 | 1 |
| 14 | 919-99902 | Key | Chave | Spie | 7x6x37 | 1 | 1 | 1 |
| 15 | 21-0148 | Belt | Cinta | Reim | 3V-315 | 2 | 2 | 2 |
| 16 | 919-99903 | Throttle Wire | Cabo do estrangulador | Gaskabel | | 1 | 1 | 1 |
| 17 | 919-99904 | Clamp | Klem | Punho | | 1 | 1 | 1 |
| 18 | 919-99905 | Shim | Calço | Afstandsring | | 1 | 1 | 1 |
| 19 | 9-5003 | Bolt | Perno | Bout | M5x10 | 2 | 2 | 2 |
| 20 | 4-5003 | Washer | Anilha | Afdichtring | M5 | 2 | 2 | 2 |
| 21 | 3-5040 | Rod End | Tampa da Hasta | Einde Staaf | | 1 | 1 | 1 |
| 22 | 9-5006 | Bolt | Perno | Bout | M5x16 | 1 | 1 | 1 |
| 23 | 4-5003 | Washer | Anilha | Afdichtring | M5 | 1 | 1 | 1 |
| 24 | 2-0043 | Spring | Mola | Veer | | 1 | 1 | 1 |
| 25 | 74-0003 | Throttle Lever | Alavanca do estrangulador | Gashendel | | 1 | 1 | 1 |
| 26 | 74-0004 | Cap | Tampa | Kap | | 1 | 1 | 1 |
| 27 | 9-10007 | Bolt | Perno | Bout | M10x50 | 1 | 1 | 1 |
| 28 | 4-6012 | Washer | Anilha | Afdichtring | | 2 | 2 | 2 |
| 29 | 4-1001 | Washer | Anilha | Afdichtring | M10 | 2 | 2 | 2 |
| 30 | 8-10001 | Nut | Porca | Moer | M10 | 1 | 1 | 1 |
| 31 | 919-99906 | Tube | Tubo | Buis | | 1 | 1 | 1 |
| 32 | 919-99907 | Cable Tie | Tirante de Cabo | Kabelgat | | 2 | 2 | 2 |


60
35
34
33
32
31
62
61
30
10
9
4
3
2
1
24
22
23
21
20
13
12
11
14
19
15
16
17
18
5
6
7
8
27
27
29
59
60
58
56
48
49
57
61
62
54
55
52
53
50
46
51
49
47
28
25
26
36
37
40
39
38
36
41
44
43
42
45
36
38
37
40
39
36
41
44
43
42
45

## Oil Unit

**2-01**

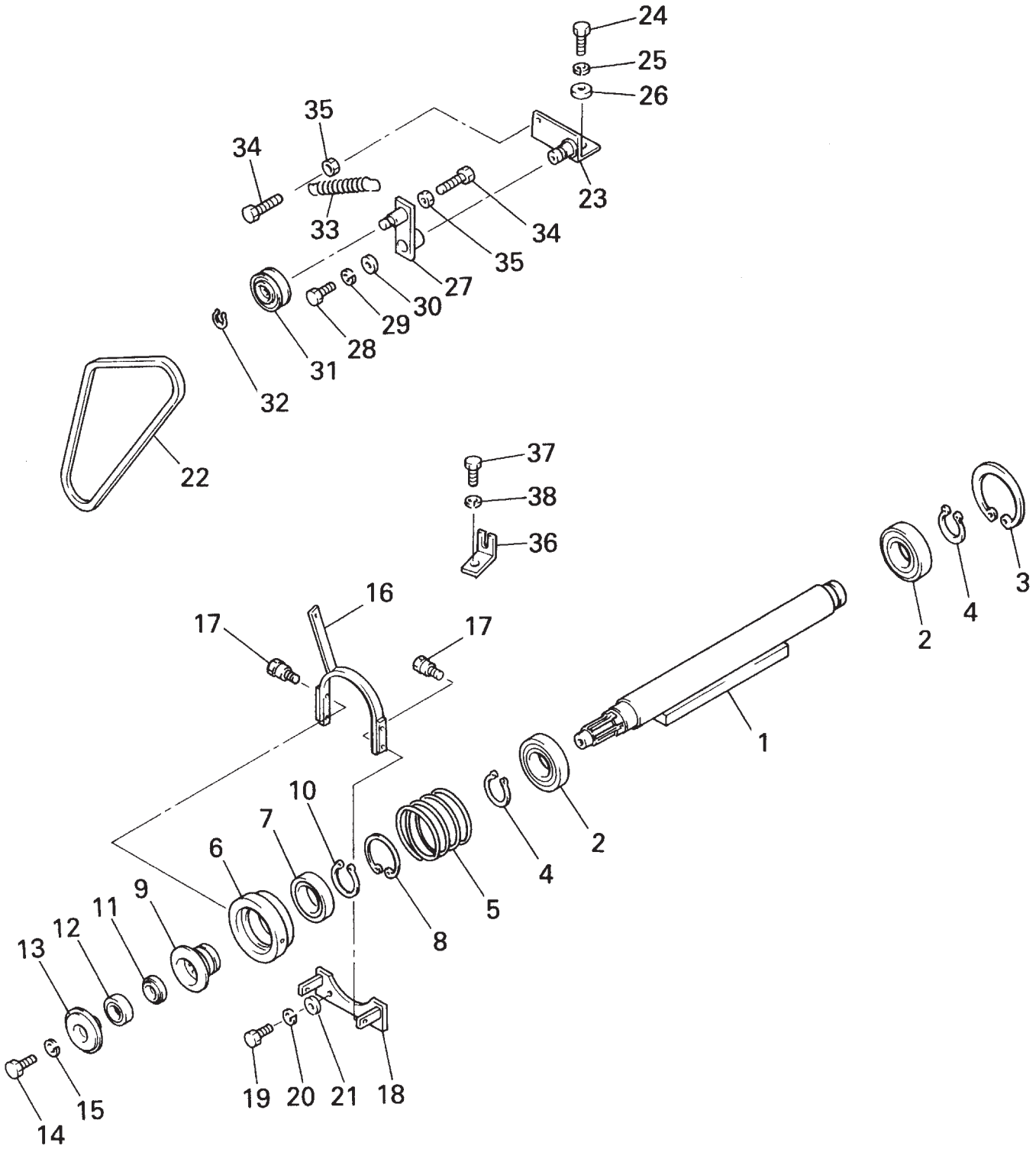
| Ref. No. | Part No. | Description | Désignation | Descripción | | Qty 650 | Qty 750 |
|---|---|---|---|---|---|---|---|
| 1 | 6-1141 | Pump | Pompe | Bombas | DAIKIN PV10-619 | 1 | 1 |
| 2 | 9-10001 | Bolt | Boulon | Perno | M10x30 | 2 | 2 |
| 3 | 4-1003 | Washer | Rondelle | Arandela | M10 | 2 | 2 |
| 4 | 4-1010 | Washer | Rondelle | Arandela | 25x10.5x3.2 | 2 | 2 |
| 5 | 919-99974 | Bracket | Sopport Fixation | Soporte | | 1 | 1 |
| 6 | 9-10001 | Bolt | Boulon | Perno | M10x30 | 4 | 4 |
| 7 | 4-1003 | Washer | Rondelle | Arandela | M10 | 4 | 4 |
| 8 | 4-1010 | Washer | Rondelle | Arandela | 25x10.5x3.2 | 4 | 4 |
| 9 | 9-10004 | Bolt | Boulon | Perno | M10x35 | 1 | 1 |
| 10 | 8-10001 | Nut | Ecrou | Tuerca | M10 | 1 | 1 |
| 11 | 919-99975 | Lever | Levier | Palanca | | 1 | 1 |
| 12 | 3-0056 | Pin | Goupille | Pasador | | 1 | 1 |
| 13 | 3-0057 | Pin | Goupille | Pasador | | 2 | 2 |
| 14 | 9-8033 | Bolt | Boulon | Perno | M8x16 | 1 | 1 |
| 15 | 919-99976 | Pulley (A) | Poulie | Polea | | 1 | 1 |
| 16 | 9-6017 | Bolt | Boulon | Perno | M6x20 | 1 | 1 |
| 17 | 4-6005 | Washer | Rondelle | Arandela | M6 | 1 | 1 |
| 18 | 4-6013 | Washer | Rondelle | Arandela | 35x6.5x4.5 | 1 | 1 |
| 19 | 919-99977 | Key | Clavette | Clave | 5x5x27 | 1 | 1 |
| 20 | 919-99978 | Pulley (B) | Poulie | Polea | | 1 | 1 |
| 21 | 9-6016 | Bolt | Boulon | Perno | M6x16 | 1 | 1 |
| 22 | 4-6005 | Washer | Rondelle | Arandela | M6 | 1 | 1 |
| 23 | 4-6013 | Washer | Rondelle | Arandela | 35x6.5x4.5 | 1 | 1 |
| 24 | 919-99988 | Key | Clavette | Clave | | 1 | 1 |
| 25 | 31-0124 | Hose (A) | Durit | Flexible | | 1 | 1 |
| 26 | 31-0125 | Hose (B) | Durit | Flexible | | 1 | 1 |
| 27 | 919-99991 | Cover | Couverte | Cubierta | | 1 | 1 |
| 28 | 31-0126 | Hose (C) | Durit | Flexible | | 1 | 1 |
| 29 | 6-0205 | Elbow | Coude | Codo | PF3/8xPF3/8 | 2 | 2 |
| 30 | 6-0206 | Elbow | Coude | Codo | PF3/8xPT1/4 | 1 | 1 |
| 31 | 6-0207 | Pipe | Canalisation | Tubo | | 1 | 1 |
| 32 | 919-99990 | Bush | Douille | Casquillo | | 1 | 1 |
| 33 | 6-0208 | Nipple | Graisseur coudé | Niple | | 1 | 1 |
| 34 | 6-0209 | Elbow | Coude | Codo | | 1 | 1 |
| 35 | 6-0212 | Pipe | Canalisation | Tubo | | 1 | 1 |
| 36 | 919-99989 | Pipe | Canalisation | Tubo | | 4 | 4 |
| 37 | 919-99979 | Support (A) | Support | Dispos.de sostén | | 2 | 2 |
| 38 | 919-99980 | Support (B) | Support | Dispos.de sostén | | 2 | 2 |
| 39 | 9-8034 | Bolt | Boulon | Perno | M8x16 | 4 | 4 |
| 40 | 4-8001 | Washer | Rondelle | Arandela | M8 | 4 | 4 |
| 41 | 6-1142 | Motor (Eaton S-380) | Motor (Eaton S-380) | Motor (Eaton S-380) | →I 0310034 | 2 | 2 |
| 41 | 6-1145 | Motor Danfoss DS375 | Motor Danfoss DS375 | Motor Danfoss DS375 | I→ 0310035 | 2 | 2 |
| 42 | 9-10001 | Bolt | Boulon | Perno | M10x30 | 8 | 8 |
| 43 | 4-1003 | Washer | Rondelle | Arandela | M10 | 8 | 8 |
| 44 | 31-0127 | Hose (D) | Durit | Flexible | | 4 | 4 |
| 45 | 6-0210 | Elbow | Poulie | Polea | | 4 | 4 |
| 46 | 919-99981 | Oil Tank | Réservoir huile | Depósito aceite | →I Belle | 1 | 1 |
| 46 | 919-99821 | Oil Tank | Réservoir huile | Depósito aceite | I→ Belle | 1 | 1 |
| 47 | 9-10021 | Bolt | Boulon | Perno | M10x30 | 2 | 2 |
| 48 | 9-10001 | Bolt | Boulon | Perno | M10x30 | 2 | 2 |
| 49 | 4-1003 | Washer | Rondelle | Arandela | M10 | 4 | 4 |
| 50 | 919-99982 | Gauge | Appareil indicat | Aparat indicador | | 1 | 1 |
| 51 | 919-99983 | Plug | Bougie | Candela | | 1 | 1 |
| 52 | 919-99984 | Cap | Chapeau | Tapa | | 1 | 1 |
| 53 | 919-99985 | Cap | Chapeau | Tapa | | 1 | 1 |
| 54 | 9-8035 | Bolt | Boulon | Perno | M8x20 | 3 | 3 |
| 55 | 4/8003 | Washer | Rondelle | Arandela | M8 | 3 | 3 |
| 56 | 919-99986 | Filter Head | Tête de Filtre | Cabeza del filtro | | 1 | 1 |
| 57 | 919-99987 | Filter cartridge | Cartouche Filtrante | Cartucho del filtro | | 1 | 1 |
| 58 | 6-0211 | Nipple | Graisseur coudé | Niple | | 1 | 1 |
| 59 | 31-0128 | Hose | Durit | Flexible | 30 x 19 x L300 | 1 | 1 |
| 60 | 919-99992 | Clip | Collier | Presilla | 34 | 2 | 2 |
| 61 | 31-0129 | Hose | Durit | Flexible | 20 x 13 x L380 | 1 | 1 |
| 62 | 919-99993 | Clip | Collier | Presilla | 23 | 2 | 2 |


60
35
34
33
32
31
62
61
30
10
9
4
3
2
1
24
22
23
21
20
13
12
11
14
19
15
16
17
18
5
6
7
8
27
27
29
59
60
58
56
57
61
62
48
49
54
55
52
53
46
50
51
49
47
25
28
26
36
37
40
39
38
36
41
44
43
42
45
36
38
37
40
39
36
41
44
43
42
45

## Oil Unit

**2-01**

| Ref. No. | Part No. | Description | Descrição | Omschrijving | | Qty 650 | Qty 750 |
|---|---|---|---|---|---|---|---|
| 1 | 6-1141 | Pump | Bomba | Pomp | DAIKIN PV10-619 | 1 | 1 |
| 2 | 9-10001 | Bolt | Perno | Bout | M10x30, 8T | 2 | 2 |
| 3 | 4-1003 | Washer | Anilha | Afdichtring | M10 | 2 | 2 |
| 4 | 4-1010 | Washer | Anilha | Afdichtring | 25x10.5x3.2 | 2 | 2 |
| 5 | 919-99974 | Bracket | Suporte | Steun | | 1 | 1 |
| 6 | 9-10001 | Bolt | Perno | Bout | M10x30, 8T | 4 | 4 |
| 7 | 4-1003 | Washer | Anilha | Afdichtring | M10 | 4 | 4 |
| 8 | 4-1010 | Washer | Anilha | Afdichtring | 25x10.5x3.2 | 4 | 4 |
| 9 | 9-10004 | Bolt | Perno | Bout | M10x35, 4T | 1 | 1 |
| 10 | 8-10001 | Nut | Porca | Moer | M10 | 1 | 1 |
| 11 | 919-99975 | Lever | Alavanca | Hendel | | 1 | 1 |
| 12 | 3-0056 | Pin | Pino | Pen | | 1 | 1 |
| 13 | 3-0057 | Pin | Pino | Pen | | 2 | 2 |
| 14 | 9-8033 | Bolt | Perno | Bout | M8x16, 11T | 1 | 1 |
| 15 | 919-99976 | Pulley (A) | Polia (A) | Riemschijf (A) | | 1 | 1 |
| 16 | 6-0207 | Bolt | Perno | Bout | M6x20 | 1 | 1 |
| 17 | 4-6005 | Washer | Anilha | Afdichtring | M6 | 1 | 1 |
| 18 | 4-6013 | Washer | Anilha | Afdichtring | 35x6.5x4.5 | 1 | 1 |
| 19 | 919-99977 | Key | Chave | Spie | 5x5x27 | 1 | 1 |
| 20 | 919-99978 | Pulley (B) | Polia (B) | Riemschijf (B) | | 1 | 1 |
| 21 | 9-6016 | Bolt | Perno | Bout | M6x16 4T | 1 | 1 |
| 22 | 4-6005 | Washer | Anilha | Afdichtring | M6 | 1 | 1 |
| 23 | 4-6013 | Washer | Anilha | Afdichtring | 35x6.5x4.5 | 1 | 1 |
| 24 | 919-99988 | Key | Chave | Spie | | 1 | 1 |
| 25 | 31-0124 | Hose (A) | Tubegem | Slang | | 1 | 1 |
| 26 | 31-0125 | Hose (B) | Tubegem | Slang | | 1 | 1 |
| 27 | 919-99991 | Cover | Tampa | Afdek | | 1 | 1 |
| 28 | 31-0126 | Hose (C) | Tubegem | Slang | | 1 | 1 |
| 29 | 6-0205 | Elbow | Canto | Elleboogstuk | PF3/8xPF3/8 | 2 | 2 |
| 30 | 6-0206 | Elbow | Canto | Elleboogstuk | PF3/8xPT1/4 | 1 | 1 |
| 31 | 6-0207 | Pipe | Tubo | Pijp | | 1 | 1 |
| 32 | 919-99990 | Bush | Bucha | Bus | | 1 | 1 |
| 33 | 6-0208 | Nipple | Bocal | Nippel | | 1 | 1 |
| 34 | 6-0209 | Elbow | Canto | Elleboogstuk | | 1 | 1 |
| 35 | 6-0212 | Pipe | Tubo | Pijp | | 1 | 1 |
| 36 | 919-99989 | Pipe | Tubo | Pijp | | 4 | 4 |
| 37 | 919-99979 | Pipe (A) | Tubo (A) | Pijp (A) | | 2 | 2 |
| 38 | 919-99980 | Pipe (B) | Tubo(B) | Pijp (B) | | 2 | 2 |
| 39 | 9-8034 | Bolt | Perno | Bout | M8x16, 4T | 4 | 4 |
| 40 | 4-8001 | Washer | Anilha | Afdichtring | M8 | 4 | 4 |
| 41 | 6-1142 | Motor | Motor | Motor | →\| 0310034 | 2 | 2 |
| 41 | 6-1145 | Motor | Motor | Motor | \|→ 0310035 | 2 | 2 |
| 42 | 9-10001 | Bolt | Perno | Bout | M10x30, 8T | 8 | 8 |
| 43 | 4-1003 | Washer | Anilha | Afdichtring | M10 | 8 | 8 |
| 44 | 31-0127 | Hose (D) | Tubegem | Slang | | 4 | 4 |
| 45 | 6-0210 | Elbow | Canto | Elleboogstuk | | 4 | 4 |
| 46 | 919-99981 | Oil Tank | Despósito de óleo | Olie Tank | →\| Belle | 1 | 1 |
| 46 | 919-99981 | Oil Tank | Despósito de óleo | Olie Tank | \|→ Belle | 1 | 1 |
| 47 | 9-10021 | Bolt | Perno | Bout | M10x30 | 2 | 2 |
| 48 | 9-10001 | Bolt | Perno | Bout | M10x30 | 2 | 2 |
| 49 | 4-1003 | Washer | Anilha | Afdichtring | M10 | 4 | 4 |
| 50 | 919-99982 | Gauge | Vareta de medição de óleo. | Olieplug | | 1 | 1 |
| 51 | 919-99983 | Plug | Bujão | Plug | | 1 | 1 |
| 52 | 919-99984 | Cap | Tampa | Kap | | 1 | 1 |
| 53 | 919-99985 | Cap | Tampa | Kap | | 1 | 1 |
| 54 | 9-8035 | Bolt | Perno | Bout | M8x20 | 3 | 3 |
| 55 | 4/8003 | Washer | Anilha | Afdichtring | M8 | 3 | 3 |
| 56 | 919-99986 | Filter Head | Cabeça do filtro | Filtertop | | 1 | 1 |
| 57 | 919-99987 | Filter cartridge | Cartucho do filtro | Filter Cartridge | | 1 | 1 |
| 58 | 6-0211 | Nipple | Bocal | Nippel | | 1 | 1 |
| 59 | 31-0128 | Hose | Tubegem | Slang | 30 x 19 x L300 | 1 | 1 |
| 60 | 919-99992 | Clip | Grampo | Klem | 34 | 2 | 2 |
| 61 | 31-0129 | Hose | Tubegem | Slang | 20 x 13 x L380 | 1 | 1 |
| 62 | 919-99993 | Clip | Grampo | Klem | 23 | 2 | 2 |

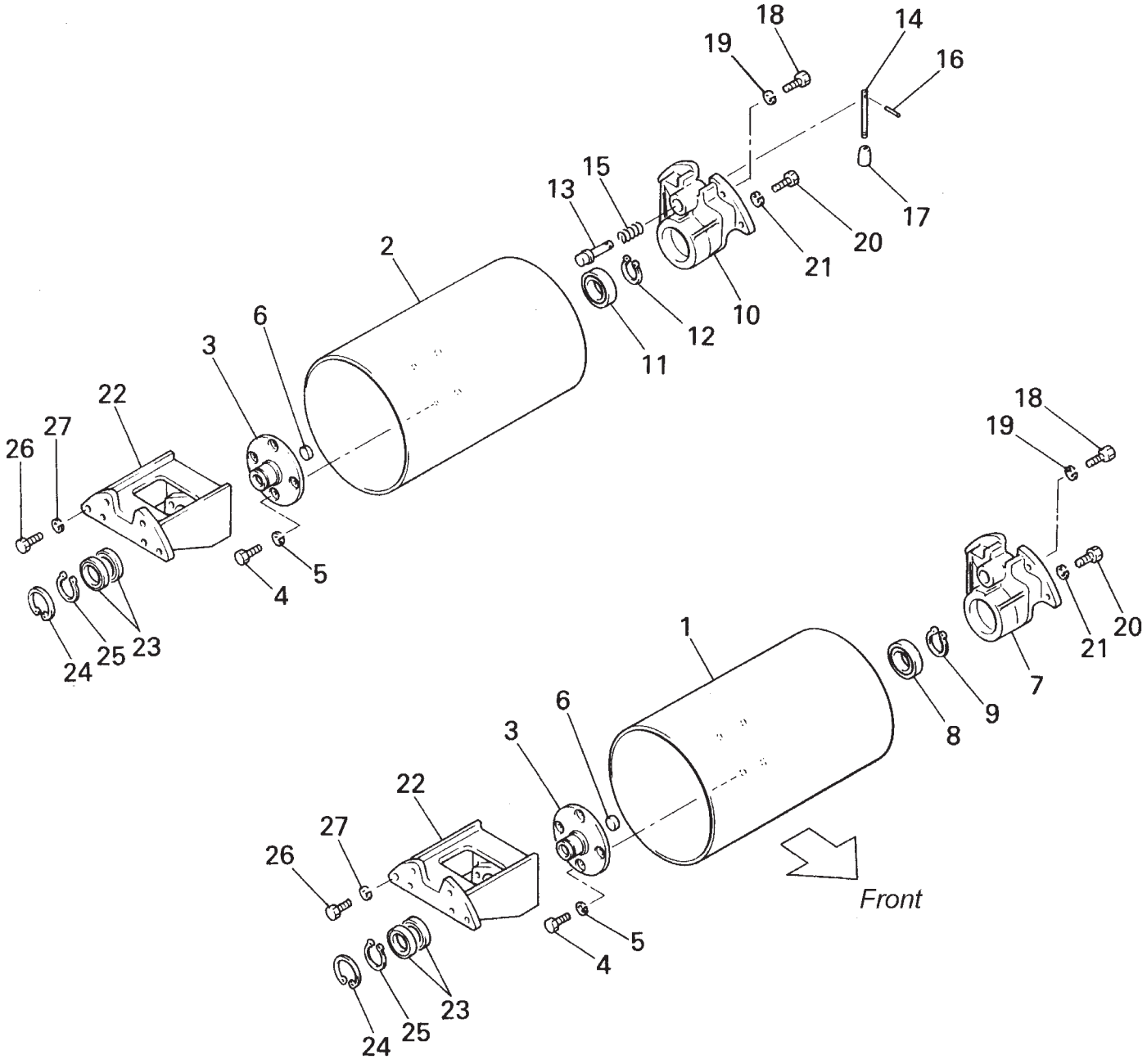

24
25
26
35
34
23
33
34
35
27
30
29
28
31
32
22
37
38
36
16
17
17
1
2
4
3
2
4
10
7
6
9
11
12
13
5
8
14
15
19
20
21
18

## Vibration Unit

3-01

| Ref. No. | Part No. | Description | Désignation | Descripción | | Qty 650 | Qty 750 |
|---|---|---|---|---|---|---|---|
| 1 | 919-99908 | Shaft | Axe | Eje | | 1 | 1 |
| 2 | 53-0020 | Bearing | Palier | Cojinete | →I Belle | 2 | 2 |
| 2 | 919-99822 | Bearing | Palier | Cojinete | I→ Belle | 2 | 2 |
| 3 | 3-9014 | Snap Ring | Jonc d'arrêt | Anillo a presión | R90 | 1 | 1 |
| 4 | 3-9015 | Snap Ring | Jonc d'arrêt | Anillo a presión | S40 | 2 | 2 |
| 5 | 2-0044 | Spring | Ressort | Muelle | | 1 | 1 |
| 6 | 919-99909 | Shifter | Levier | Palanca de desplazamiento | 1 | 1 | |
| 7 | 53-0021 | Bearing | Palier | Cojinete | 6009LLUC3 | 1 | 1 |
| 8 | 3-9016 | Snap Ring | Jonc d'arrêt | Anillo a presión | R75 | 1 | 1 |
| 9 | 919-99910 | Pulley | Poulie | Polea | | 1 | 1 |
| 10 | 3-9017 | Snap Ring | Jonc d'arrêt | Anillo a presión | S45 | 1 | 1 |
| 11 | 919-99911 | Collar | Collerette | Collar | | 1 | 1 |
| 12 | 53-0022 | Bearing | Palier | Cojinete | 6205ZZ | 1 | 1 |
| 13 | 919-99912 | Pulley | Poulie | Polea | | 1 | 1 |
| 14 | 9-8036 | Bolt | Boulon | Perno | M8x25 | 1 | 1 |
| 15 | 4-8003 | Washer | Rondelle | Arandela | M8 | 1 | 1 |
| 16 | 919-99913 | Lever | Levier | Palanca | | 1 | 1 |
| 17 | 919-99914 | Bolt (B) | Boulon | Perno | | 4 | 4 |
| 18 | 919-99915 | Support | Support | Dispos.de sostén | | 1 | 1 |
| 19 | 9-10001 | Bolt | Boulon | Perno | M10 x 30 | 2 | 2 |
| 20 | 4-1003 | Washer | Rondelle | Arandela | M10 | 2 | 2 |
| 21 | 4-1010 | Washer | Rondelle | Arandela | 25x10.5x3.2 | 2 | 2 |
| 22 | 21-150 | V-belt | Courroie | Correa | A-33" RED | 1 | 1 |
| 23 | 919-99916 | Bracket | Support fixation | Soporte | | 1 | 1 |
| 24 | 9-8037 | Bolt | Boulon | Perno | M8x25 | 2 | 2 |
| 25 | 4-8003 | Washer | Rondelle | Arandela | M8 | 2 | 2 |
| 26 | 4-8014 | Washer | Rondelle | Arandela | 25x8.5x3.2 | 2 | 2 |
| 27 | 919-99917 | Belt Tension | Tendeur de Courroie | Tensionador Correa | | 1 | 1 |
| 28 | 9-10023 | Bolt | Boulon | Perno | M10x20 | 1 | 1 |
| 29 | 4-1003 | Washer | Rondelle | Arandela | M10 | 1 | 1 |
| 30 | 4-1010 | Washer | Rondelle | Arandela | 25x8.5x3.2 | 1 | 1 |
| 31 | 919-99918 | Idler | Poulie Tension | Polea Loca | TPAV-70 | 1 | 1 |
| 32 | 3-9018 | Snap Ring | Jonc d'arrêt | Anillo a presión | S15 | 1 | 1 |
| 33 | 2-0045 | Spring | Ressort | Muelle | | 1 | 1 |
| 34 | 9-10024 | Bolt | Boulon | Perno | M10x35 | 4 | 4 |
| 35 | 8-10001 | Nut | Ecrou | Tuerca | M10 | 2 | 2 |
| 36 | 919-99919 | Support | Support | Dispos.de sostén | | 1 | 1 |
| 37 | 9-8037 | Bolt | Boulon | Perno | M8x25 | 1 | 1 |
| 38 | 4-8003 | Washer | Rondelle | Arandela | M8 | 1 | 1 |

| Ref. No. | Part No. | Description | Descrição | Omschrijving | | Qty 650 | Qty 750 |
|---|---|---|---|---|---|---|---|
| 1 | 919-99908 | Shaft | Veio | As | | 1 | 1 |
| 2 | 53-0020 | Bearing | Rolamento | Lager | →I Belle | 2 | 2 |
| 2 | 919-99822 | Bearing | Rolamento | Lager | I→ Belle | 2 | 2 |
| 3 | 3-9014 | Snap Ring | Anel de Mola | Borgveer | R90 | 1 | 1 |
| 4 | 3-9015 | Snap Ring | Anel de Mola | Borgveer | S40 | 2 | 2 |
| 5 | 2-0044 | Spring | Mola | Veer | | 1 | 1 |
| 6 | 919-99909 | Shifter | Deslocador | Draaier | | 1 | 1 |
| 7 | 53-0021 | Bearing | Rolamento | Lager | 6009LLUC3 | 1 | 1 |
| 8 | 3-9016 | Snap Ring | Anel de Mola | Borgveer | R75 | 1 | 1 |
| 9 | 919-99910 | Pulley | Polia | Riemschijf | | 1 | 1 |
| 10 | 3-9017 | Snap Ring | Anel de Mola | Borgveer | S45 | 1 | 1 |
| 11 | 919-99911 | Collar | Braçadeira | Kraag | | 1 | 1 |
| 12 | 53-0022 | Bearing | Rolamento | Lager | 6205ZZ | 1 | 1 |
| 13 | 919-99912 | Pulley | Polia | Riemschijf | | 1 | 1 |
| 14 | 9-8036 | Bolt | Perno | Bout | M8x25 | 1 | 1 |
| 15 | 4-8003 | Washer | Anilha | Afdichtring | M8 | 1 | 1 |
| 16 | 919-99913 | Lever | Alavanca | Hendel | | 1 | 1 |
| 17 | 919-99914 | Bolt (B) | Perno | Bout | | 4 | 4 |
| 18 | 919-99915 | Bracket | Suporte | Steun | | 1 | 1 |
| 19 | 9-10001 | Bolt | Perno | Bout | M10 x 30 | 2 | 2 |
| 20 | 4-1003 | Washer | Anilha | Afdichtring | M10 | 2 | 2 |
| 21 | 4-1010 | Washer | Anilha | Afdichtring | 25x10.5x3.2 | 2 | 2 |
| 22 | 21-150 | Belt | Cinta | Riem | A-33" RED | 1 | 1 |
| 23 | 919-99916 | Bracket | Suporte | Steun | | 1 | 1 |
| 24 | 9-8037 | Bolt | Perno | Bout | M8x25 | 2 | 2 |
| 25 | 4-8003 | Washer | Anilha | Afdichtring | M8 | 2 | 2 |
| 26 | 4-8014 | Washer | Anilha | Afdichtring | 25x8.5x3.2 | 2 | 2 |
| 27 | 919-99917 | Belt Tension | Tensão da correia | Snaarspanning | | 1 | 1 |
| 28 | 9-10023 | Bolt | Perno | Bout | M10x20 | 1 | 1 |
| 29 | 4-1003 | Washer | Anilha | Afdichtring | M10 | 1 | 1 |
| 30 | 4-1010 | Washer | Anilha | Afdichtring | 25x8.5x3.2 | 1 | 1 |
| 31 | 919-99918 | Idler | Neutro | Riemschijf | TPAV-70 | 1 | 1 |
| 32 | 3-9018 | Snap Ring | Anel de Mola | Borgveer | S15 | 1 | 1 |
| 33 | 2-0045 | Spring | Mola | Veer | | 1 | 1 |
| 34 | 9-10024 | Bolt | Perno | Bout | M10x35 | 2 | 2 |
| 35 | 8-10001 | Nut | Porca | Moer | M10 | 2 | 2 |
| 36 | 919-99919 | Bracket | Suporte | Steun | | 1 | 1 |
| 37 | 9-8037 | Bolt | Perno | Bout | M8x25 | 1 | 1 |
| 38 | 4-8003 | Washer | Anilha | Afdichtring | M8 | 1 | 1 |

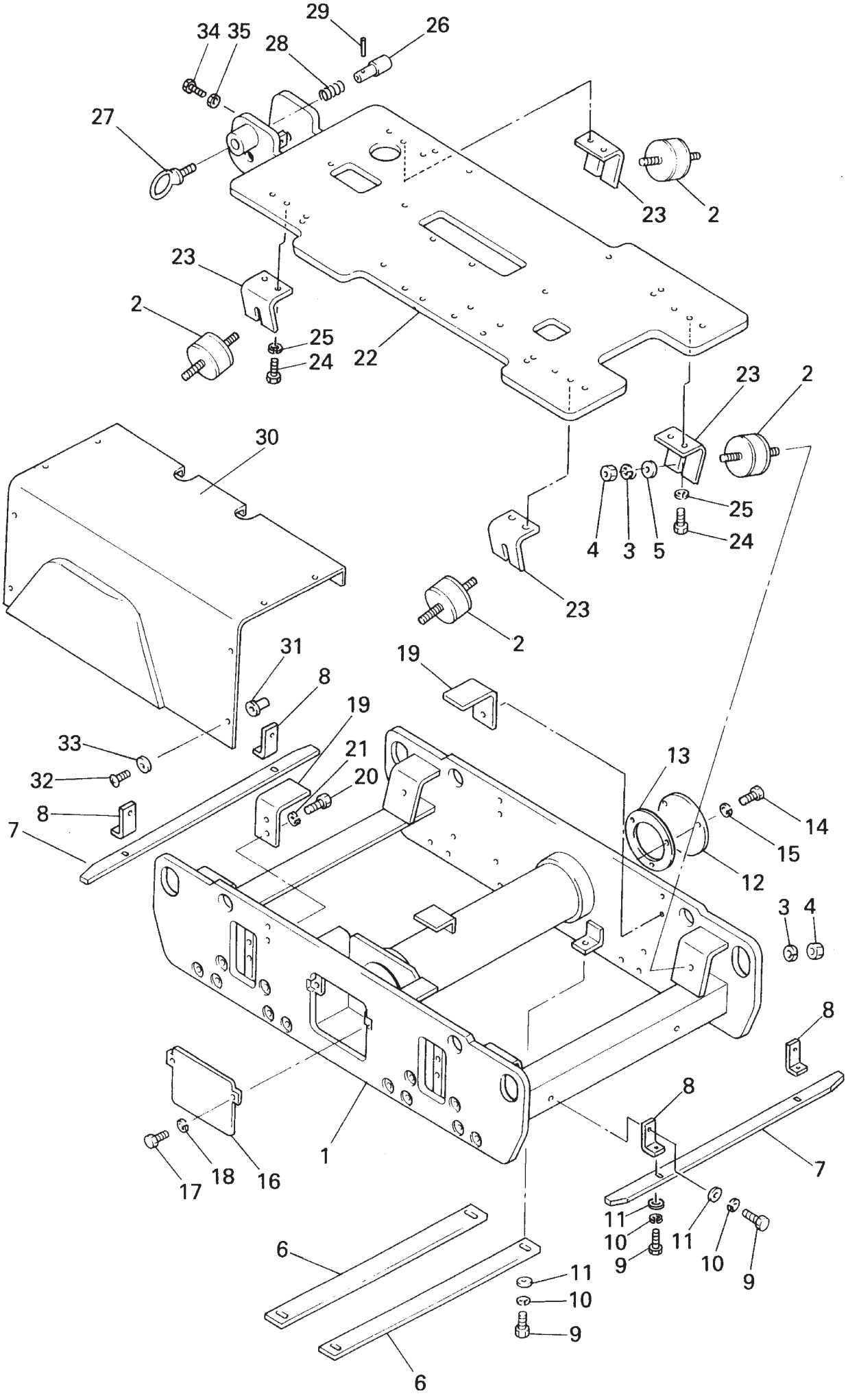

18
19
14
16
15
13
17
20
21
2
10
12
11
6
3
22
27
26
5
4
24
25
23
18
19
20
21
7
9
8
1
6
3
22
27
26
5
4
24
25
23
Front

## Roller Unit

**4-01**

| Ref. No. | Part No. | Description | Désignation | Descripción | | Qty 650 | Qty 750 |
|---|---|---|---|---|---|---|---|
| 1 | 919-99920 | Drum | Tambour | Tamburo | | 1 | 0 |
| | 919-99921 | Drum | Tambour | Tamburo | | 0 | 1 |
| 2 | 919-99922 | Drum | Tambour | Tamburo | | 1 | 0 |
| | 919-99923 | Drum | Tambour | Tamburo | | 0 | 1 |
| 3 | 919-99924 | Shaft | Axe | Eje | | 2 | 2 |
| 4 | 9-12020 | Bolt | Boulon | Perno | M12x30, 8T | 8 | 8 |
| 5 | 4-1202 | Washer | Rondelle | Arandela | M12 | 8 | 8 |
| 6 | 6-2015 | Plug | Bougie | Candela | | 2 | 2 |
| 7 | 919-99925 | Bracket | Support fixation | Soporte | | 1 | 1 |
| 8 | 53-0023 | Bearing | Palier | Cojinete | 6210LLU | 1 | 1 |
| 9 | 3-9019 | Snap Ring | Jonc d'arrêt | Anillo a presión | S50 | 1 | 1 |
| 10 | 919-99926 | Bracket | Support fixation | Soporte | | 1 | 1 |
| 11 | 919-99927 | Bearing | Palier | Cojinete | 6210LLU | 1 | 1 |
| 12 | 74-0005 | Snap Ring | Jonc d'arrêt | Anillo a presión | S50 | 1 | 1 |
| 13 | 919-99817 | Shaft | Axe | Eje | | 1 | 1 |
| 14 | 74-0005 | Handle | Guidon | Manillar | | 1 | 1 |
| 15 | 2-0046 | Spring | Ressort | Muelle | | 1 | 1 |
| 16 | 3-0058 | Pin | Goupille | Pasador | | 1 | 1 |
| 17 | 74-0006 | Grip | Poignée | Asas | | 1 | 1 |
| 18 | 9-12020 | Bolt | Boulon | Perno | M12x30, 8T | 12 | 12 |
| 19 | 4-1202 | Washer | Rondelle | Arandela | M12 | 12 | 12 |
| 20 | 9-10023 | Bolt | Boulon | Perno | M10x20, 4T | 2 | 2 |
| 21 | 4-1003 | Washer | Rondelle | Arandela | M10 | 2 | 2 |
| 22 | 919-99928 | Bracket | Support fixation | Soporte | | 2 | 2 |
| 23 | 53-0024 | Bearing | Palier | Cojinete | 6010LLU | 4 | 4 |
| 24 | 3-9020 | Snap Ring | Jonc d'arrêt | Anillo a presión | R80 | 2 | 2 |
| 25 | 3-9019 | Snap Ring | Jonc d'arrêt | Anillo a presión | S50 | 2 | 2 |
| 26 | 9-12020 | Bolt | Boulon | Perno | M12x30, 8T | 12 | 12 |
| 27 | 4-1202 | Washer | Rondelle | Arandela | M12 | 12 | 12 |

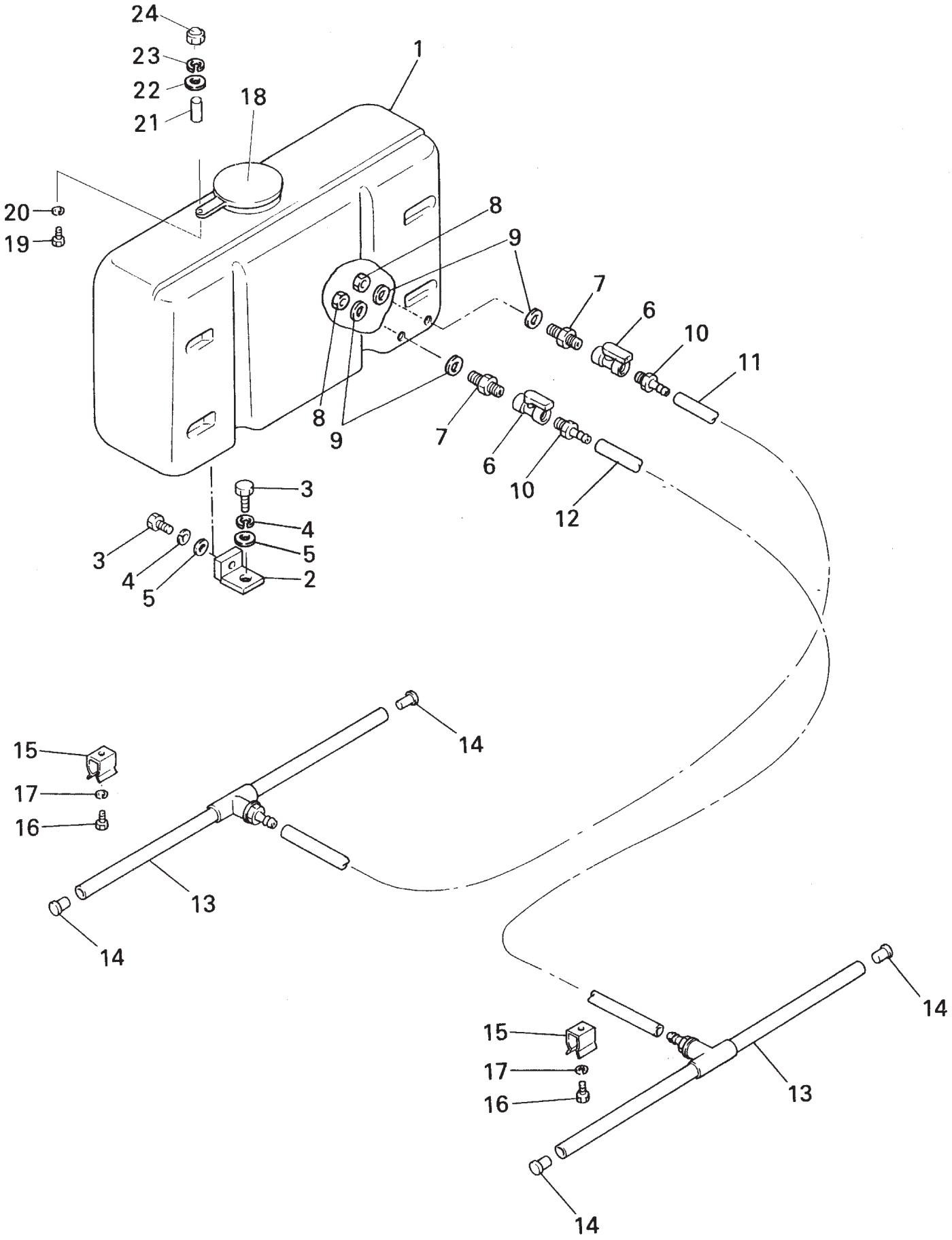
| Ref. No. | Part No. | Description | Descrição | Omschrijving | | Qty 650 | Qty 750 |
|---|---|---|---|---|---|---|---|
| 1 | 919-99920 | Drum | Tambor | Messenrol | | 1 | 0 |
| | 919-99921 | Drum | Tambor | Messenrol | | 0 | 1 |
| 2 | 919-99922 | Drum | Tambor | Messenrol | | 1 | 0 |
| | 919-99923 | Drum | Tambor | Messenrol | | 0 | 1 |
| 3 | 919-99924 | Shaft | Veio | As | | 2 | 2 |
| 4 | 9-12020 | Bolt | Perno | Bout | M12x30, 8T | 8 | 8 |
| 5 | 4-1202 | Washer | Anilha | Afdichtring | M12 | 8 | 8 |
| 6 | 6-2015 | Plug | Bujão | Plug | | 2 | 2 |
| 7 | 919-99925 | Bracket | Suporte | Steun | | 1 | 1 |
| 8 | 53-0023 | Bearing | Rolamento | Lager | 6210LLU | 1 | 1 |
| 9 | 3-9019 | Snap Ring | Anel de Mola | Borgveer | S50 | 1 | 1 |
| 10 | 919-99926 | Bracket | Suporte | Steun | | 1 | 1 |
| 11 | 919-99927 | Bearing | Rolamento | Lager | 6210LLU | 1 | 1 |
| 12 | 74-0005 | Snap Ring | Anel de Mola | Borgveer | S50 | 1 | 1 |
| 13 | 919-99817 | Shaft | Veio | As | | 1 | 1 |
| 14 | 74-0005 | Handle | Alavanca | Hendel | | 1 | 1 |
| 15 | 2-0046 | Spring | Mola | Veer | | 1 | 1 |
| 16 | 3-0058 | Pin | Pino | Pen | | 1 | 1 |
| 17 | 74-0006 | Grip | Mãozotas | Handgrepen | | 1 | 1 |
| 18 | 9-12020 | Bolt | Perno | Bout | M12x30, 8T | 12 | 12 |
| 19 | 4-1202 | Washer | Anilha | Afdichtring | M12 | 12 | 12 |
| 20 | 9-10023 | Bolt | Perno | Bout | M10x20, 4T | 2 | 2 |
| 21 | 4-1003 | Washer | Anilha | Afdichtring | M10 | 2 | 2 |
| 22 | 919-99928 | Bracket | Suporte | Steun | | 2 | 2 |
| 23 | 53-0024 | Bearing | Rolamento | Lager | 6010LLU | 4 | 4 |
| 24 | 3-9020 | Snap Ring | Anel de Mola | Borgveer | R80 | 2 | 2 |
| 25 | 3-9019 | Snap Ring | Anel de Mola | Borgveer | S50 | 2 | 2 |
| 26 | 9-12020 | Bolt | Perno | Bout | M12x30, 8T | 12 | 12 |
| 27 | 4-1202 | Washer | Anilha | Afdichtring | M12 | 12 | 12 |


29
26
34
35
28
27
23
2
23
2
25
24
22
23
2
30
25
24
4
3
5
23
2
31
19
8
19
33
21
32
20
8
7
13
14
15
12
3
4
8
8
1
18
16
17
8
7
11
10
9
11
10
9
6
11
10
9
6

## Frame Unit 5-01

| Ref. No. | Part No. | Description | Désignation | Descripción | | Qty 650 | Qty 750 |
|---|---|---|---|---|---|---|---|
| 1 | 919-99929 | Main Frame | Châssis principal | Armazón principal | | 1 | 1 |
| 2 | 21-01510 | Isolator | Isolateur | Aislador | | 4 | 4 |
| 3 | 4-1202 | Washer | Rondelle | Arandela | M12 | 8 | 8 |
| 4 | 8-12001 | Nut | Ecrou | Tuerca | M12 | 8 | 8 |
| 5 | 4-1212 | Washer | Rondelle | Arandela | 28x12.5x3.2 | 4 | 4 |
| 6 | 919-99930 | Scraper | Racleur | Arrastre | | 2 | 2 |
| 7 | 919-99931 | Scraper | Racleur | Arrastre | | 2 | 2 |
| 8 | 919-99932 | Bracket | Support fixation | Soporte | | 4 | 4 |
| 9 | 9-10025 | Bolt | Boulon | Perno | M10x25, 8T | 12 | 12 |
| 10 | 4/1003 | Washer | Rondelle | Arandela | M10 | 12 | 12 |
| 11 | 4-1010 | Washer | Rondelle | Arandela | 25x10.5x3.2 | 12 | 12 |
| 12 | 919-99933 | Cover | Couvercle | Coperchio | | 1 | 1 |
| 13 | 919-99934 | Cover | Couvercle | Coperchio | | 1 | 1 |
| 14 | 9-6016 | Bolt | Boulon | Perno | M6x16, 4T | 3 | 3 |
| 15 | 4-6005 | Washer | Rondelle | Arandela | M6 | 3 | 3 |
| 16 | 919-99935 | Cover | Couvercle | Coperchio | | 1 | 1 |
| 17 | 9-8034 | Bolt | Boulon | Perno | M8x16, 4T | 2 | 2 |
| 18 | 4-8003 | Washer | Rondelle | Arandela | M8 | 2 | 2 |
| 19 | 919-99936 | Bracket | Support fixation | Soporte | | 2 | 2 |
| 20 | 9-10025 | Bolt | Boulon | Perno | M10x25, 8T | 4 | 4 |
| 21 | 4/1003 | Washer | Rondelle | Arandela | M10 | 4 | 4 |
| 22 | 919-99937 | Base | Semelle | Base | | 1 | 1 |
| 23 | 919-99938 | Support | Support | Dispos.de sostén | | 4 | 4 |
| 24 | 9-10025 | Bolt | Boulon | Perno | M10x25, 8T | 8 | 8 |
| 25 | 4/1003 | Washer | Rondelle | Arandela | M10 | 8 | 8 |
| 26 | 919-99939 | Pin | Goupille | Perno | | 1 | 1 |
| 27 | 919-99940 | Bolt | Boulon | Perno | | 1 | 1 |
| 28 | 2-0047 | Spring | Ressort | Muelle | | 1 | 1 |
| 29 | 3-0059 | Pin | Goupille | Perno | | 1 | 1 |
| 30 | 919-99941 | Cover | Couvercle | Coperchio | →I 0405030 | 1 | 1 |
| 30 | 919-99818 | Cover | Couvercle | Coperchio | ⊢► 0405031 | 1 | 1 |
| | | | | | →I 0409006 | 1 | 1 |
| 30 | 919-99819 | Cover | Couvercle | Coperchio | ⊢► 04090047 | 1 | 1 |
| 31 | 919-99942 | Bolt Holder | Écrou | Perno de anclaje | Q-6 | 8 | 8 |
| 32 | 9-6018 | Bolt | Boulon | Perno | M6x25, 4T | 8 | 8 |
| 33 | 4-6003 | Washer | Rondelle | Arandela | M6 | 8 | 8 |
| 34 | 9-10025 | Bolt | Boulon | Perno | M10x25, 8T | 1 | 1 |
| 35 | 8-10001 | Nut | Ecrou | Tuerca | M10 | 1 | 1 |

| Ref. No. | Part No. | Description | Descrição | Omschrijving | | Qty 650 | Qty 750 |
|---|---|---|---|---|---|---|---|
| 1 | 919-99929 | Main Frame | Estrutura principal | Hoofdframe | | 1 | 1 |
| 2 | 21-01510 | Isolator | Isolador | Isolatieschakelaar | | 4 | 4 |
| 3 | 4-1202 | Washer | Anilha | Afdichtring | M12 | 8 | 8 |
| 4 | 8-12001 | Nut | Porca | Moer | M12 | 8 | 8 |
| 5 | 9-10025 | Washer | Anilha | Afdichtring | 28x12.5x3.2 | 4 | 4 |
| 6 | 919-99930 | Scraper | Raspadeira | Schraper | | 2 | 2 |
| 7 | 919-99931 | Scraper | Raspadeira | Schraper | | 2 | 2 |
| 8 | 919-99932 | Bracket | Suporte | Steun | | 4 | 4 |
| 9 | 9-10025 | Bolt | Perno | Bout | M10x25, 8T | 12 | 12 |
| 10 | 4/1003 | Washer | Anilha | Afdichtring | M10 | 12 | 12 |
| 11 | 4-1010 | Washer | Anilha | Afdichtring | 25x10.5x3.2 | 12 | 12 |
| 12 | 919-99933 | Cover | Tampa | Afdek | | 1 | 1 |
| 13 | 919-99934 | Cover | Tampa | Afdek | | 1 | 1 |
| 14 | 9-6016 | Bolt | Perno | Bout | M6x16, 4T | 3 | 3 |
| 15 | 4-6005 | Washer | Anilha | Afdichtring | M6 | 3 | 3 |
| 16 | 919-99935 | Cover | Tampa | Afdek | | 1 | 1 |
| 17 | 9-8034 | Bolt | Perno | Bout | M8x16, 4T | 2 | 2 |
| 18 | 4-8003 | Washer | Anilha | Afdichtring | M8 | 2 | 2 |
| 19 | 919-99936 | Bracket | uporte | Steun | | 2 | 2 |
| 20 | 9-10025 | Bolt | Perno | Bout | M10x25, 8T | 4 | 4 |
| 21 | 4/1003 | Washer | Anilha | Afdichtring | M10 | 4 | 4 |
| 22 | 919-99937 | Base | Vloerplaat | Base | | 1 | 1 |
| 23 | 919-99938 | Bracket | Suporte | Steun | | 4 | 4 |
| 24 | 9-10025 | Bolt | Perno | Bout | M10x25, 8T | 8 | 8 |
| 25 | 4/1003 | Washer | Anilha | Afdichtring | M10 | 8 | 8 |
| 26 | 919-99939 | Pin | Pino | Pen | | 1 | 1 |
| 27 | 919-99940 | Bolt | Perno | Bout | | 1 | 1 |
| 28 | 2-0047 | Spring | Mola | Veer | | 1 | 1 |
| 29 | 3-0059 | Pin | Pino | Pen | | 1 | 1 |
| 30 | 919-99941 | Cover | Tampa | Afdek | →I 0405030 | 1 | 1 |
| 30 | 919-99818 | Cover | Tampa | Afdek | ⊢► 0405031 | 1 | 1 |
| | | | | | →I 0409006 | 1 | 1 |
| 30 | 919-99819 | Cover | Tampa | Afdek | ⊢► 04090047 | 1 | 1 |
| 31 | 919-99942 | Bolt Holder | Suporte do parafuso | Bouthouder | Q-6 | 8 | 8 |
| 32 | 9-6018 | Bolt | Perno | Bout | M6x25, 4T | 8 | 8 |
| 33 | 4-6003 | Washer | Anilha | Afdichtring | M6 | 8 | 8 |
| 34 | 9-10025 | Bolt | Perno | Bout | M10x25, 8T | 1 | 1 |
| 35 | 8-10001 | Nut | Porca | Moer | M10 | 1 | 1 |

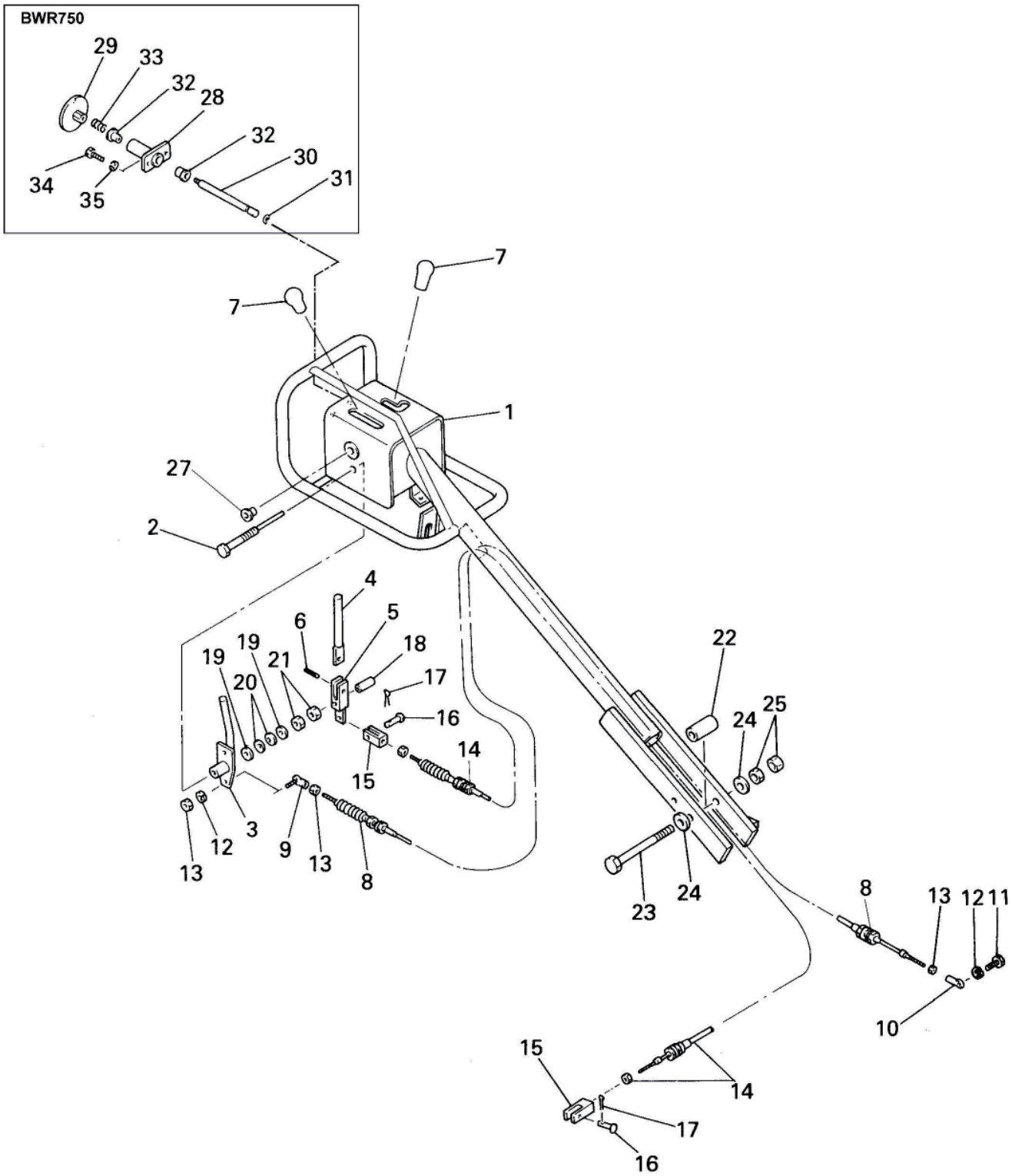

24
23
22
21
18
1
20
19
8
9
7
6
10
11
8
9
7
6
10
12
3
4
5
2
3
4
5
15
17
16
14
13
14
15
17
16
13
14
14

## Sprinkler Unit

**6-01**

| Ref. No. | Part No. | Description | Désignation | Descripción | | Qty 650 | Qty 750 |
|---|---|---|---|---|---|---|---|
| 1 | 919-99943 | Water Tank | Réservoir eau | Depos. de agua | | 1 | 1 |
| 2 | 919-99944 | Support | Support | Dispos.de sostén | | 3 | 3 |
| 3 | 9-10002 | Bolt | Boulon | Perno | M10x20 | 6 | 6 |
| 4 | 4/1003 | Washer | Rondelle | Arandela | M10 | 6 | 6 |
| 5 | 4-1011 | Washer | Rondelle | Arandela | 25x10.5x3.2 | 6 | 6 |
| 6 | 6-0203 | Cock | Robinet | Aguja indicadora | | 2 | 2 |
| 7 | 919-99994 | Connector | Borne | Conector | | 2 | 2 |
| 8 | 8-14010 | Nut | Ecrou | Tuerca | | 2 | 2 |
| 9 | 919-99995 | Packing | Garniture étanch | Empaquetadura | | 4 | 4 |
| 10 | 6-0204 | Nipple | Graisseur coudé | Niple | 3/8 | 2 | 2 |
| 11 | 919-99996 | Hose (A) | Durit | Flexible | | 1 | 1 |
| 12 | 919-99997 | Hose (B) | Durit | Flexible | | 1 | 1 |
| 13 | 919-99945 | Nozzle | Nez injecteur | Tobera | | 1 | 1 |
| 14 | 919-99946 | Cap | Chapeau | Tapa | | 4 | 4 |
| 15 | 919-99947 | Catch | Loquet porte | Fijador | | 4 | 4 |
| 16 | 9-08038 | Bolt | Boulon | Perno | M8x16 | 4 | 4 |
| 17 | 4-8003 | Washer | Rondelle | Arandela | M8 | 4 | 4 |
| 18 | 919-99804 | Cap | Chapeau | Tapa | | 1 | 1 |
| 19 | 9-10025 | Bolt | Boulon | Perno | M10 x 35 | 1 | 1 |
| 20 | 4-1013 | Washer | Rondelle | Arandela | M10 | 1 | 1 |
| 21 | 919-99805 | Collar | Collier | Casquillo | | 1 | 1 |
| 22 | 4-3003 | Washer | Rondelle | Arandela | 30 x 10.5 x 3.2 | 1 | 1 |
| 23 | 4-1003 | Washer | Rondelle | Arandela | M10 | 1 | 1 |
| 24 | 8-10011 | Nut | Ecrou | Tuerca | M10 | 1 | 1 |

| Ref. No. | Part No. | Description | Descrição | Omschrijving | | Qty 650 | Qty 750 |
|---|---|---|---|---|---|---|---|
| 1 | 919-99943 | Water Tank | Tanque de água | Watertank | | 1 | 1 |
| 2 | 919-99944 | Bracket | Suporte | Steun | | 3 | 3 |
| 3 | 9-10002 | Bolt | Perno | Bout | M10x20 | 6 | 6 |
| 4 | 4-1003 | Washer | Anilha | Afdichtring | M10 | 6 | 6 |
| 5 | 4-1010 | Washer | Anilha | Afdichtring | 25x10.5x3.2 | 6 | 6 |
| 6 | 6-0203 | Cock | Válvula de líquido | Brandstoffkraan | | 2 | 2 |
| 7 | 919-99994 | Connector | Conector | Verbindingsstuk | | 2 | 2 |
| 8 | 8-14010 | Nut | Porca | Moer | | 2 | 2 |
| 9 | 919-99995 | Packing | Caixa de Empanque | Pakkingstrip | | 4 | 4 |
| 10 | 6-0204 | Nipple | Bocal | Nippel | 3/8 | 2 | 2 |
| 11 | 919-99996 | Hose (A) | Tubegem | Slang | | 1 | 1 |
| 12 | 919-99997 | Hose (B) | Tubegem | Slang | | 1 | 1 |
| 13 | 919-99945 | Nozzle | Bico | Sproeier | | 1 | 1 |
| 14 | 919-99946 | Cap | Tampa | Kap | | 4 | 4 |
| 15 | 919-99947 | Catch | Trinco | Vanger | | 4 | 4 |
| 16 | 9-08038 | Bolt | Perno | Bout | M8x16 | 4 | 4 |
| 17 | 4-8003 | Washer | Anilha | Afdichtring | M8 | 4 | 4 |
| 18 | 919-99804 | Cap | Tampa | Kap | | 1 | 1 |
| 19 | 9-10025 | Bolt | Boulon | Perno | M10 x 35 | 1 | 1 |
| 20 | 4-1013 | Washer | Anilha | Afdichtring | M10 | 1 | 1 |
| 21 | 919-99805 | Collar | Braçadeira | Kraag | | 1 | 1 |
| 22 | 4-3003 | Washer | Anilha | Afdichtring | 30 x 10.5 x 3.2 | 1 | 1 |
| 23 | 4-1003 | Washer | Anilha | Afdichtring | M10 | 1 | 1 |
| 24 | 8-10011 | Nut | Porca | Moer | M10 | 1 | 1 |

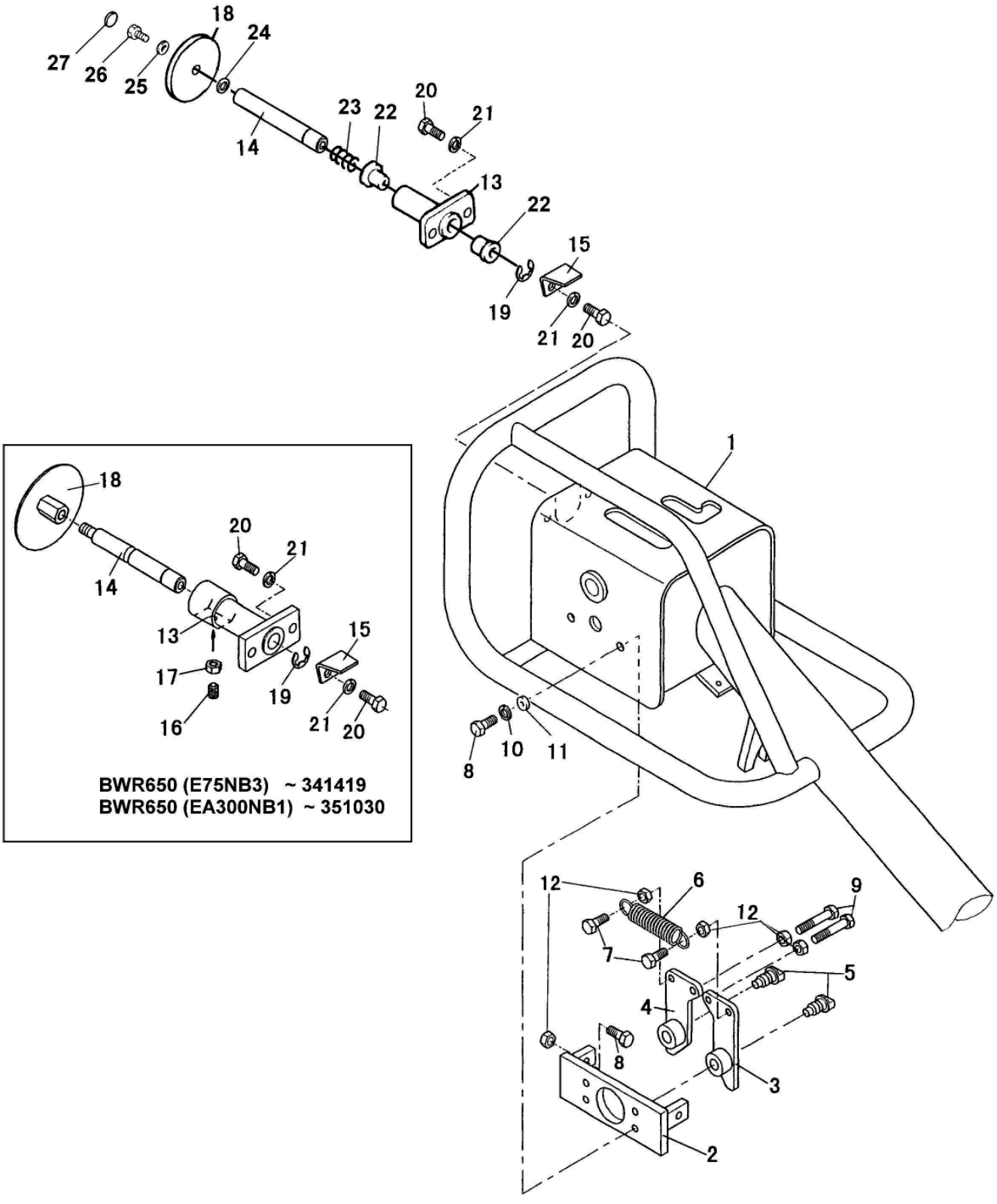

BWR750
29
33
32
28
32
30
31
34
35
7
7
1
27
2
4
5
6
18
17
16
14
15
19
19
21
20
3
12
13
9
13
8
22
24
25
24
23
8
13
12
11
10
15
14
17
16

## Handle Unit

**7-01**

| Ref. No. | Part No. | Description | Désignation | Descripción | | Qty 650 | Qty 750 |
|---|---|---|---|---|---|---|---|
| 1 | 919-99948 | Handle | Guidon | Manillar | | 0 | 1 |
| | 919-99949 | Handle | Guidon | Manillar | | 1 | 0 |
| 2 | 919-99950 | Pin | Goupille | Pasador | | 1 | 1 |
| 3 | 919-99951 | Lever | Levier | Palanca | | 1 | 1 |
| 4 | 919-99952 | Lever | Levier | Palanca | | 1 | 1 |
| 5 | 919-99953 | Connector | Borne | Conector | | 1 | 1 |
| 6 | 3-0054 | Pin | Goupille | Pasador | 8x25 | 1 | 1 |
| 7 | 74-0007 | Grip | Poignée | Asas | | 2 | 2 |
| 8 | 919-99954 | Wire | Fil | Alambre | | 1 | 1 |
| 9 | 3-5041 | Rod End | Tête de bielle | Cabeza de biela | RBL6 | 1 | 1 |
| 10 | 3-5042 | Rod End | Tête de bielle | Cabeza de biela | PHS6 | 1 | 1 |
| 11 | 9-6019 | Bolt | Boulon | Perno | M6x20 | 1 | 1 |
| 12 | 4-6003 | Washer | Rondelle | Arandela | M6 | 2 | 2 |
| 13 | 8-6012 | Nut | Ecrou | Tuerca | M6 | 3 | 3 |
| 14 | 919-99955 | Wire | Fil | Alambre | | 1 | 1 |
| 15 | 3-5043 | Clevis | Clape | Gancho seguridad | | 2 | 2 |
| 16 | 919-99956 | Pin | Goupille | Pasador | 6x18 | 2 | 2 |
| 17 | 3-0057 | Pin | Goupille | Pasador | | 2 | 2 |
| 18 | 919-99957 | Collar | Collerette | Collar | | 1 | 1 |
| 19 | 4/1610 | Washer | Rondelle | Arandela | 35x16.5x4.5 | 2 | 2 |
| 20 | 4-6013 | Washer | Rondelle | Arandela | | 2 | 2 |
| 21 | 8-16003 | Nut | Ecrou | Tuerca | M16 | 2 | 2 |
| 22 | 919-99958 | Collar | Collerette | Collar | | 1 | 1 |
| 23 | 9/20000 | Bolt | Boulon | Perno | M20x170 | 1 | 1 |
| 24 | 4-2003 | Washer | Rondelle | Arandela | M20 | 2 | 2 |
| 25 | 8/2001 | Nut | Ecrou | Tuerca | M20 | 2 | 2 |
| 27 | 919-99964 | Cap | Chapeau | Tapa | | 1 | 1 |
| 28 | 919-99959 | Support | Support | Dispos.de sostén | | - | 1 |
| 29 | 919-99960 | Plate | Plaque | Placa | | - | 1 |
| 30 | 919-99824 | Rod | Trigle | Varilla | | - | 1 |
| 31 | 3-1013 | E-Ring | E-Ring | E-Ring | | - | 1 |
| 32 | 919-99825 | Bush | Douille | Buje | | - | 2 |
| 33 | 919-99826 | Spring | Ressort | Muelle | | - | 1 |
| 34 | 9-8041 | Bolt | Boulon | Perno | M8 x 16T | - | 2 |
| 35 | 4-8003 | Washer | Rondelle | Arandela | M8 | - | 2 |

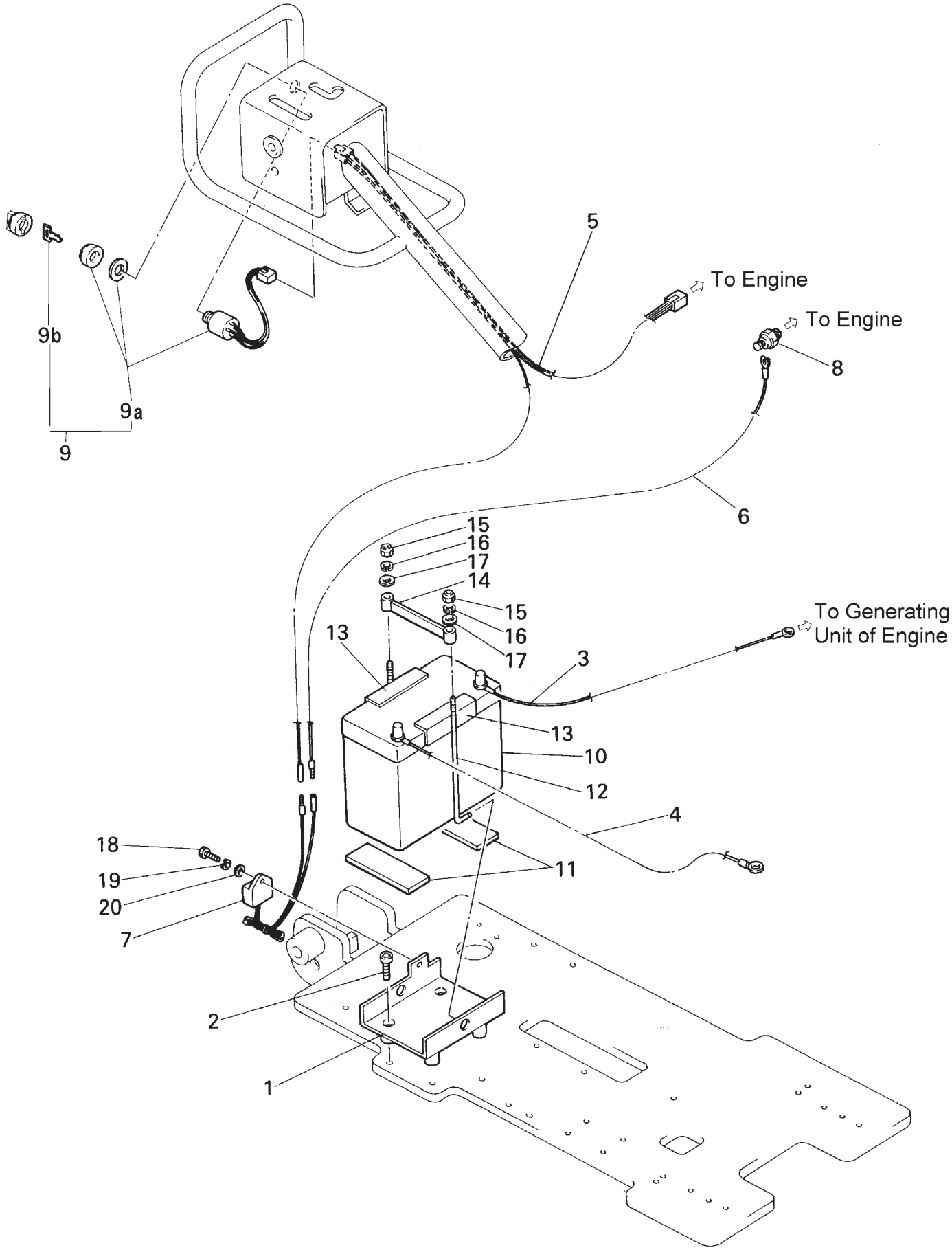
| Ref. No. | Part No. | Description | Descrição | Omschrijving | | Qty 650 | Qty 750 |
|---|---|---|---|---|---|---|---|
| 1 | 919-99948 | Handle | Alavanca | Hendel | | 0 | 1 |
| | 919-99949 | Handle | Alavanca | Hendel | | 1 | 0 |
| 2 | 919-99950 | Pin | Pino | Pen | | 1 | 1 |
| 3 | 919-99951 | Lever | Alavanca | Hendel | | 1 | 1 |
| 4 | 919-99952 | Lever | Alavanca | Hendel | | 1 | 1 |
| 5 | 919-99953 | Connector | Conector | Verbingdingsstuk | | 1 | 1 |
| 6 | 3-0054 | Pin | Pino | Pen | 8x25 | 1 | 1 |
| 7 | 74-0007 | Grip | Mãozotas | Handgrepen | | 2 | 2 |
| 8 | 919-99954 | Cable | Cabo | Kabel | | 1 | 1 |
| 9 | 3-5041 | Rod End | Tampa da hasta | Einde Staaf | RBL6 | 1 | 1 |
| 10 | 3-5042 | Rod End | Tampa da hasta | Einde Staaf | PHS6 | 1 | 1 |
| 11 | 9-6019 | Bolt | Perno | Bout | M6x20 | 1 | 1 |
| 12 | 4-6003 | Washer | Anilha | Afdichtring | M6 | 2 | 2 |
| 13 | 8-6012 | Nut | Porca | Moer | M6 | 3 | 3 |
| 14 | 919-99955 | Cable | Cabo | Kabel | | 1 | 1 |
| 15 | 3-5043 | Clevis | Grampo | Graffel | | 2 | 2 |
| 16 | 919-99956 | Pin | Pino | Pen | 6x18 | 2 | 2 |
| 17 | 3-0060 | Pin | Pino | Pen | | 2 | 2 |
| 18 | 919-99957 | Collar | Braçadeira | Kraag | | 1 | 1 |
| 19 | 4-1610 | Washer | Anilha | Afdichtring | 35x16.5x4.5 | 2 | 2 |
| 20 | 4-6013 | Washer | Anilha | Afdichtring | | 2 | 2 |
| 21 | 8-16003 | Nut | Porca | Moer | M16 | 2 | 2 |
| 22 | 919-99958 | Collar | Braçadeira | Kraag | | 1 | 1 |
| 23 | 9-20000 | Bolt | Perno | Bout | M20x170 | 1 | 1 |
| 24 | 4-2003 | Washer | Anilha | Afdichtring | M20 | 2 | 2 |
| 25 | 8-001 | Nut | Porca | Moer | M20 | 2 | 2 |
| 27 | 919-99964 | Cap | Tampa | Kap | | 1 | 1 |
| 28 | 919-99959 | Support | Suporte | Steun | | - | 1 |
| 29 | 919-99960 | Plate | Placa | Plaat | | - | 1 |
| 30 | 919-99824 | Rod | Biele | Staaf | | - | 1 |
| 31 | 3-1013 | E-Ring | E-Ring | E-Ring | | - | 1 |
| 32 | 919-99825 | Bush | Bucha | Bus | | - | 2 |
| 33 | 919-99826 | Spring | Mola | Veer | | - | 1 |
| 34 | 9-8041 | Bolt | Perno | Bout | M8 x 16T | - | 2 |
| 35 | 4-8003 | Washer | Anilha | Afdichtring | M8 | - | 2 |


27
26
25
18
24
14
23
22
20
21
13
22
15
19
21
20
1
18
14
20
21
13
15
17
16
19
21
20
8
10
11
12
6
9
12
7
5
4
8
3
2
BWR650 (E75NB3) ~ 341419
BWR650 (EA300NB1) ~ 351030

## Safety Device 8-01

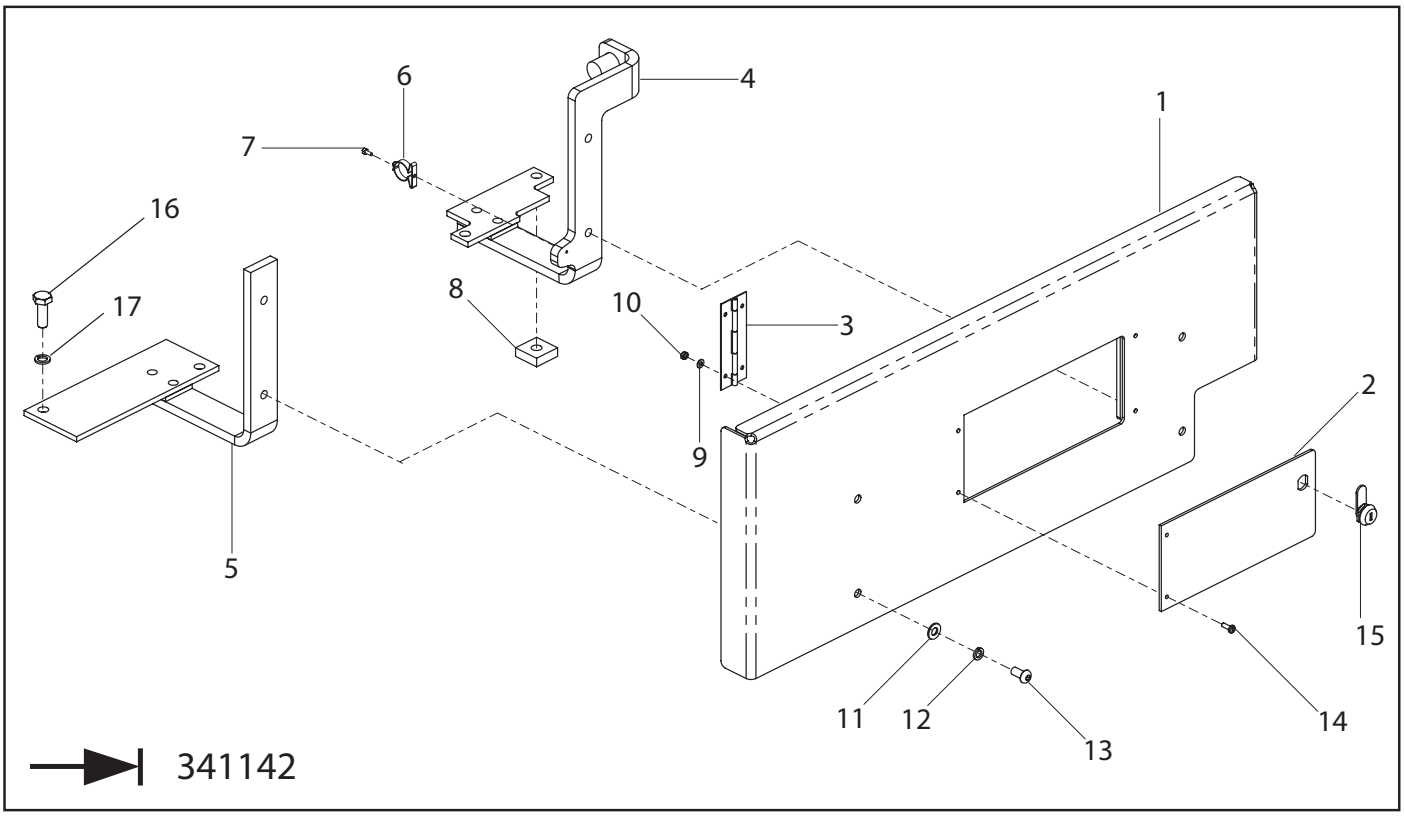
| Ref. No. | Part No. | Description | Désignation | Descripción | | Qty 650 | Qty 750 |
|---|---|---|---|---|---|---|---|
| 1 | 919-99948 | Handle | Guidon | Manillar | | 1 | - |
| 1 | 919-99949 | Handle | Guidon | Manillar | | - | 1 |
| 2 | 919-99965 | Support | Support | Dispos.de sostén | | 1 | - |
| 3 | 919-99966 | Arm | Bras | Brazo | | 1 | - |
| 4 | 919-99967 | Arm | Bras | Brazo | | 1 | - |
| 5 | 919-99968 | Bolt | Boulon | Perno | | 2 | - |
| 6 | 2-0048 | Spring | Ressort | Muelle | | 1 | - |
| 7 | 9-8041 | Bolt | Boulon | Perno | M8x16 8T | 2 | - |
| 8 | 9-8039 | Bolt | Boulon | Perno | M8x20 8T | 6 | - |
| 9 | 9-8040 | Bolt | Boulon | Perno | M8x45 8T | 2 | - |
| 10 | 4-8003 | Washer | Rondelle | Arandela | M8 | 1 | - |
| 11 | 4-8001 | Washer | Rondelle | Arandela | M8 | 2 | - |
| 12 | 8-8003 | Nut | Ecrou | Tuerca | M8 | 6 | - |
| 13 | 919-99959 | Support | Support | Dispos.de sostén | →I Belle | 1 | - |
| 13 | 919-99827 | Support | Support | Dispos.de sostén | I→ Belle | 1 | - |
| 14 | 919-99961 | Rod | Trigle | Varilla | →I Belle | 1 | - |
| 14 | 919-99828 | Rod | Trigle | Varilla | I→ Belle | 1 | - |
| 15 | 919-99806 | Bracket | Support Fixation | Soporte | →I Belle | 1 | - |
| 15 | 919-99829 | Bracket | Support Fixation | Soporte | I→ Belle | 1 | - |
| 16 | 919-99963 | Plunger | Plongeur | Embolo | | 1 | - |
| 17 | 8-10001 | Nut | Ecrou | Tuerca | | 1 | - |
| 18 | 919-99960 | Plate | Plaque | Plato | | 1 | - |
| 18 | 918-99830 | Plate | Plaque | Plato | Black | 1 | - |
| 18 | 918-99831 | Plate | Plaque | Plato | Red | 1 | - |
| 19 | 3-1013 | Ring | Anneau | Anillo | | 1 | - |
| 20 | 9-8041 | Bolt | Boulon | Perno | M8x16 8T | 3 | - |
| 21 | 4-8003 | Washer | Rondelle | Arandela | M8 | 3 | - |
| 22 | 919-99832 | Bush | Douille | Buje | | 2 | - |
| 23 | 919-99833 | Spring | Ressort | Muelle | | 1 | - |
| 24 | 919-99834 | Washer | Rondelle | Arandela | 8.5 x 30 x t2.3 | 1 | - |
| 25 | 05.0.058 | Washer | Rondelle | Arandela | 8.5 x 25 x t3.0 | 1 | - |
| 26 | 00.0.019 | Bolt | Boulon | Perno | M8x30 8T | 1 | - |
| 27 | 919-99835 | Cap | Capuchon | Casquete | Black | 1 | - |
| 27 | 919-99836 | Cap | Capuchon | Casquete | Red | 1 | - |

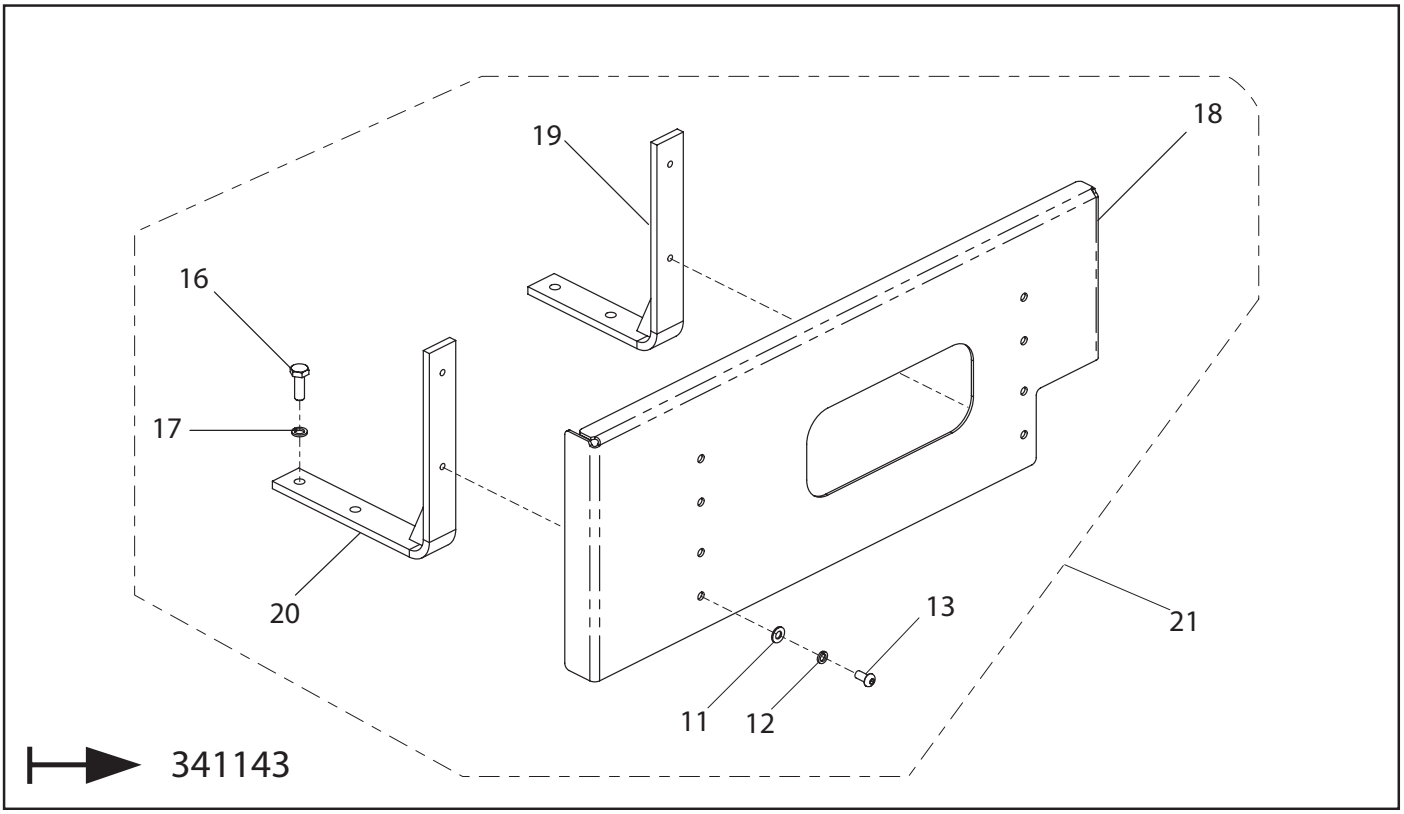
| Ref. No. | Part No. | Description | Descrição | Omschrijving | | Qty 650 | Qty 750 |
|---|---|---|---|---|---|---|---|
| 1 | 919-99948 | Handle | Alavanca | Hendel | | 1 | - |
| 1 | 919-99949 | Handle | Alavanca | Hendel | | - | 1 |
| 2 | 919-99965 | Support | Suporte | Steun | | 1 | - |
| 3 | 919-99966 | Arm | Braço | Arm | | 1 | - |
| 4 | 919-99967 | Arm | Braço | Arm | | 1 | - |
| 5 | 919-99968 | Bolt | Perno | Bout | | 2 | - |
| 6 | 2-0048 | Spring | Mola | Veer | | 1 | - |
| 7 | 9-8041 | Bolt | Perno | Bout | M8x16 8T | 2 | - |
| 8 | 9-8039 | Bolt | Perno | Bout | M8x20 8T | 6 | - |
| 9 | 9-8040 | Bolt | Perno | Bout | M8x45 8T | 2 | - |
| 10 | 4-8003 | Washer | Anilha | Afdichtring | M8 | 1 | - |
| 11 | 4-8001 | Washer | Anilha | Afdichtring | M8 | 2 | - |
| 12 | 8-8003 | Nut | Porca | Moer | M8 | 6 | - |
| 13 | 919-99959 | Support | Suporte | Steun | →I Belle | 1 | - |
| 13 | 919-99827 | Support | Suporte | Steun | I→ Belle | 1 | - |
| 14 | 919-99961 | Rod | Biele | Staaf | →I Belle | 1 | - |
| 14 | 919-99828 | Rod | Biele | Staaf | I→ Belle | 1 | - |
| 15 | 919-99506 | Bracket | Suporte | Steun | →I Belle | 1 | - |
| 15 | 919-99829 | Bracket | Suporte | Steun | I→ Belle | 1 | - |
| 16 | 919-99963 | Plunger | Embolo | Dompelaar | | 1 | - |
| 17 | 8-10001 | Nut | Porca | Moer | | 1 | - |
| 18 | 919-99960 | Plate | Placa | Plat | | 1 | - |
| 18 | 918-99830 | Plate | Placa | Plat | Black | 1 | - |
| 18 | 918-99831 | Plate | Placa | Plat | Red | 1 | - |
| 19 | 3-1013 | Ring | Anel | Ring | | 1 | - |
| 20 | 9-8041 | Bolt | Perno | Bout | M8x16 8T | 3 | - |
| 21 | 4-8003 | Washer | Anilha | Afdichtring | M8 | 3 | - |
| 22 | 919-99832 | Bush | Bucha | Bus | | 2 | - |
| 23 | 919-99833 | Spring | Mola | Veer | | 1 | - |
| 24 | 919-99834 | Washer | Anilha | Afdichtring | 8.5 x 30 x t2.3 | 1 | - |
| 25 | 05.0.058 | Washer | Anilha | Afdichtring | 8.5 x 25 x t3.0 | 1 | - |
| 26 | 00.0.019 | Bolt | Perno | Bout | M8x30 8T | 1 | - |
| 27 | 919-99835 | Cap | Tampa | Kap | Black | 1 | - |
| 27 | 919-99836 | Cap | Tampa | Kap | Red | 1 | - |


9b
9a
9
5
To Engine
To Engine
8
6
15
16
17
14
15
16
17
13
To Generating
Unit of Engine
3
13
10
12
4
18
19
20
7
11
2
1

| Ref. No. | Part No. | Description | Désignation | Descripción | | Qty 650 |
|---|---|---|---|---|---|---|
| 1 | 919-99969 | Battery Holder | Support de Batterie | Soporte Bateria | | 1 |
| 2 | 9-10026 | Bolt | Boulon | Perno | M10x40 | 4 |
| 3 | 71-0219 | Cable - Positive | Câble - Positif | Cable - Positivo | | 1 |
| 4 | 71-0220 | Cable - Earth | Câble - De Terre | Cable - Cabeza | | 1 |
| 5 | 71-0221 | Harness | Faisceau | Cableado | | 1 |
| 6 | 71-0222 | Cable | Câble | Cable | | 1 |
| 7 | 70-0219 | Buzzer | Signal | Vibrador | | 1 |
| 8 | 70-0218 | Switch | Bouton | Parada | (Kubota) | 1 |
| 9 | 70-0220 | Switch | Bouton | Parada | | 1 |
| 9a | 919-99807 | Switch | Bouton | Parada | | 1 |
| 9b | 919-99808 | Key | Clavette | Chaveta | | 1 |
| 10 | 70-0221 | Battery | Batterie | Bateria | | 1 |
| 11 | 919-99970 | Rubber Isolator | Isolateur en caoutchouc | Aislador de caucho | | 2 |
| 12 | 919-99971 | Bolt | Boulon | Perno | | 2 |
| 13 | 919-99972 | Plate | Plaque | Placa | | 2 |
| 14 | 919-99973 | Battery Holder | Support de Batterie | Soporte Bateria | | 1 |
| 15 | 8/8008 | Nut | Ecrou | Tuerca | M8 | 2 |
| 16 | 4-8003 | Washer | Rondelle | Arandela | M8 | 2 |
| 17 | 4/8001 | Washer | Rondelle | Arandela | M8 | 2 |
| 18 | 9-5007 | Bolt | Boulon | Perno | M5x10, 4T | 1 |
| 19 | 4-5003 | Washer | Rondelle | Arandela | M5 | 1 |
| 20 | 4-5001 | Washer | Rondelle | Arandela | M5 | 1 |

| Ref. No. | Part No. | Description | Descrição | Omschrijving | | Qty 650 |
|---|---|---|---|---|---|---|
| 1 | 919-99969 | Battery Holder | Suporte da Bateria | Accu Houder | | 1 |
| 2 | 9-10026 | Bolt | Perno | Bout | M10x40 | 4 |
| 3 | 71-0219 | Cable - Positive | Cabo - Positivo | Kabel - Positief | | 1 |
| 4 | 71-0220 | Cable - Earth | Cabo - Terra | Kabel - Aarde | | 1 |
| 5 | 71-0221 | Harness | Arnês | Bedrading | | 1 |
| 6 | 71-0222 | Cable | Cabo | Kabel | | 1 |
| 7 | 70-0219 | Buzzer | Vibrador | Zoemer | | 1 |
| 8 | 70-0218 | Switch | Chave | Shakelaar | (Kubota) | 1 |
| 9 | 70-0220 | Switch | Chave | Shakelaar | | 1 |
| 9a | 919-99807 | Switch | Chave | Shakelaar | | 1 |
| 9b | 919-99808 | Key | Chave | Spie | | 1 |
| 10 | 70-0221 | Battery | Bateria | Accu | | 1 |
| 11 | 919-99970 | Rubber Isolator | Vedante de Borracha | Rubberen isolator | | 2 |
| 12 | 919-99971 | Bolt | Perno | Bout | | 2 |
| 13 | 919-99972 | Plate | Placa | Plaat | | 2 |
| 14 | 919-99973 | Battery Holder | Suporte da Bateria | Accu Houder | | 1 |
| 15 | 8-8008 | Nut | Porca | Moer | M8 | 2 |
| 16 | 4-8003 | Washer | Anilha | Afdichtring | M8 | 2 |
| 17 | 4-8001 | Washer | Anilha | Afdichtring | M8 | 2 |
| 18 | 9-5007 | Bolt | Perno | Bout | M5x10, 4T | 1 |
| 19 | 4-5003 | Washer | Anilha | Afdichtring | M5 | 1 |
| 20 | 4-5001 | Washer | Anilha | Afdichtring | M5 | 1 |


6
4
7
1
16
17
8
10
3
2
9
5
15
11
12
13
14
341142


19
18
16
17
20
13
21
11
12
341143

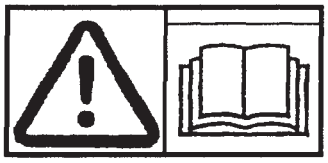
## Engine Side Panel

**10-01**

| Ref. No. | Part No. | Description | Désignation | Descripción | | Qty 650 | Qty 750 |
|---|---|---|---|---|---|---|---|
| 1 | 919-99801 | Side Cover | Couvercle latéral | Tapa Lateral | | 1 | |
| 2 | 919-99802 | Door | Porte | Puerta | | 1 | |
| 3 | 73-0048 | Hinge | Charnière | Bisagra | | 1 | |
| 4 | 919-00200 | Bracket | Patte de montage | Escuadra | | 1 | |
| 5 | 919-00101 | Bracket | Patte de montage | Escuadra | | 1 | |
| 6 | 3-1014 | Clip | Collier | Presilla | | 1 | |
| 7 | 7-3001 | Screw | Vis | Tornillo | | 1 | |
| 8 | 919-99803 | Nut | Ecrou | Tuerca | | 1 | |
| 9 | 4-4001 | Washer | Rondelle | Arandela | | 4 | |
| 10 | 8-4003 | Nut | Ecrou | Tuerca | | 4 | |
| 11 | 4-8006 | Washer | Rondelle | Arandela | | 4 | |
| 12 | 4-8003 | Washer | Rondelle | Arandela | | 4 | |
| 13 | 7-8049 | Screw | Vis | Tornillo | | 4 | |
| 14 | 7-4002 | Screw | Vis | Tornillo | | 2 | |
| 15 | 73-0047 | Lock | Serrure | Cierre | | 1 | |
| 16 | 9-10001 | Bolt | Boulon | Perno | | 4 | |
| 17 | 4-1003 | Washer | Rondelle | Arandela | | 4 | |
| 18 | 919-99812 | Side Cover | Couvercle latéral | Tapa Lateral | Orange | 1 | |
| 18 | 919-99816 | Side Cover | Couvercle latéral | Tapa Lateral | Yellow | 1 | |
| 19 | 919-00600 | Bracket | Patte de montage | Escuadra | | 1 | |
| 20 | 919-00500 | Bracket | Patte de montage | Escuadra | | 1 | |
| 21 | OPR-02-DIO | Retrofit Kit | Kit de Modification | Kit de Modficación | ⊢► 341143 | 1 | |
| 21 | OPR-01-DIO | Retrofit Kit | Kit de Modification | Kit de Modficación | →⊣ 341142 | 1 | |

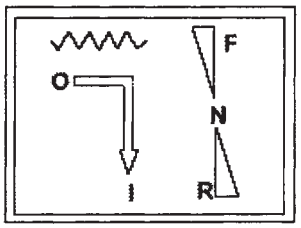
| Ref. No. | Part No. | Description | Descrição | Omschrijving | | Qty 650 | Qty 750 |
|---|---|---|---|---|---|---|---|
| 1 | 919-99801 | Side Cover | Tampa Lateral | Zijdeksel | | 1 | |
| 2 | 919-99802 | Door | Porta | Deur | | 1 | |
| 3 | 73-0048 | Hinge | Dobradiça | Scharnier | | 1 | |
| 4 | 919-00200 | Bracket | Suporte | Steun | | 1 | |
| 5 | 919-00101 | Bracket | Suporte | Steun | | 1 | |
| 6 | 3-1014 | Clip | Grampo | Klem | | 1 | |
| 7 | 7-3001 | Screw | Parafuso | Schroef | | 1 | |
| 8 | 919-99803 | Nut | Porca | Moer | | 1 | |
| 9 | 4-4001 | Washer | Anilha | Afdichtring | | 4 | |
| 10 | 8-4003 | Nut | Porca | Moer | | 4 | |
| 11 | 4-8006 | Washer | Anilha | Afdichtring | | 4 | |
| 12 | 4-8003 | Washer | Anilha | Afdichtring | | 4 | |
| 13 | 7-8049 | Screw | Parafuso | Schroef | | 4 | |
| 14 | 7-4002 | Screw | Parafuso | Schroef | | 2 | |
| 15 | 73-0047 | Lock | Fechadura | Slot | | 1 | |
| 16 | 9-10001 | Bolt | Perno | Bout | | 4 | |
| 17 | 4-1003 | Washer | Anilha | Afdichtring | | 4 | |
| 18 | 919-99812 | Side Cover | Tampa Lateral | Zijdeksel | Orange | 1 | |
| 18 | 919-99816 | Side Cover | Tampa Lateral | Zijdeksel | Yellow | 1 | |
| 19 | 919-00600 | Bracket | Suporte | Steun | | 1 | |
| 20 | 919-00500 | Bracket | Suporte | Steun | | 1 | |
| 21 | OPR-02-DIO | Retrofit Kit | Jogo de Retrofit | Pas uitrusting retroactief aan | ⊢► 341143 | 1 | |
| 21 | OPR-01-DIO | Retrofit Kit | Jogo de Retrofit | Pas uitrusting retroactief aan | →⊣ 341142 | 1 | |

①



②

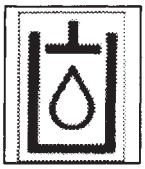
③



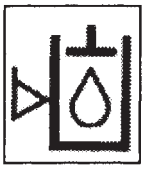

④

⑤

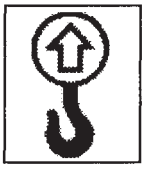
⑥



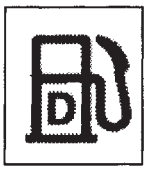
⑦



⑧



⑨

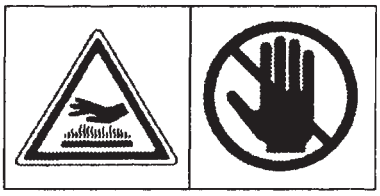



⑩

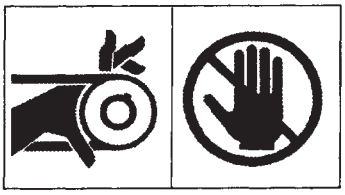
⑪

⑫

⑬

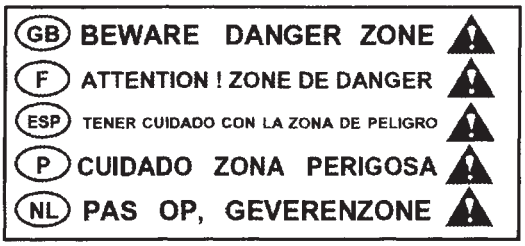


⑭



⑮

⑯


GB BEWARE DANGER ZONE
F ATTENTION ! ZONE DE DANGER
ESP TENER CUIDADO CON LA ZONA DE PELIGRO
P CUIDADO ZONA PERIGOSA
NL PAS OP, GEVERENZONE

⑰

⑱

Belle Twin Drum Roller

⑲

⑳

## Decals

11-01

| Ref. No. | Part No. | Description | Désignation | Descripción | Qty 650 | Qty 750 |
|---|---|---|---|---|---|---|
| 1 | 800-99990 | Decal | Autocollant | Rótulo | 1 | 1 |
| 2 | 800-99991 | Decal | Autocollant | Rótulo | 1 | 1 |
| 3 | 800-99992 | Decal | Autocollant | Rótulo | 1 | 1 |
| 4 | 800-99993 | Decal | Autocollant | Rótulo | 1 | |
| 5 | 800-99994 | Decal | Autocollant | Rótulo | 1 | 1 |
| 6 | 800-99995 | Decal | Autocollant | Rótulo | 1 | 1 |
| 7 | 800-99996 | Decal | Autocollant | Rótulo | 1 | 1 |
| 8 | 840-01700 | Decal | Autocollant | Rótulo | 1 | 1 |
| 9 | 800-10430 | Decal | Autocollant | Rótulo | 1 | 1 |
| 10 | 800-99997 | Decal | Autocollant | Rótulo | 1 | 1 |
| 11 | 800-99998 | Decal | Autocollant | Rótulo | 1 | 1 |
| 12 | 800-99999 | Decal | Autocollant | Rótulo | 1 | 1 |
| 13 | 800-99801 | Decal | Autocollant | Rótulo | 1 | 1 |
| 14 | 800-99802 | Decal | Autocollant | Rótulo | 1 | 1 |
| 15 | 800-99942 | Decal | Autocollant | Rótulo | 1 | 1 |
| 16 | 800-21310 | Decal | Autocollant | Rótulo | 1 | 1 |
| 17 | 800-99944 | Decal | Autocollant | Rótulo | | |
| 17 | 800-99945 | Decal | Autocollant | Rótulo | | 1 |
| 18 | 800-99969 | Decal | Autocollant | Rótulo | 1 | 1 |
| 19 | 800-99967 | Decal | Autocollant | Rótulo | 1 | |
| 19 | 800-99968 | Decal | Autocollant | Rótulo | 1 | |
| 20 | 800-99803 | Decal | Autocollant | Rótulo | 1 | |
| 20 | 800-99804 | Decal | Autocollant | Rótulo | | 1 |

| Ref. No. | Part No. | Description | Descrição | Omschrijving | Qty 650 | Qty 750 |
|---|---|---|---|---|---|---|
| 1 | 800-99990 | Decal | Decalque | Label | 1 | 1 |
| 2 | 800-99991 | Decal | Decalque | Label | 1 | 1 |
| 3 | 800-99992 | Decal | Decalque | Label | 1 | 1 |
| 4 | 800-99993 | Decal | Decalque | Label | 1 | |
| 5 | 800-99994 | Decal | Decalque | Label | 1 | 1 |
| 6 | 800-99995 | Decal | Decalque | Label | 1 | 1 |
| 7 | 800-99996 | Decal | Decalque | Label | 1 | 1 |
| 8 | 840-01700 | Decal | Decalque | Label | 1 | 1 |
| 9 | 800-10430 | Decal | Decalque | Label | 1 | 1 |
| 10 | 800-99997 | Decal | Decalque | Label | 1 | 1 |
| 11 | 800-99998 | Decal | Decalque | Label | 1 | 1 |
| 12 | 800-99999 | Decal | Decalque | Label | 1 | 1 |
| 13 | 800-99801 | Decal | Decalque | Label | 1 | 1 |
| 14 | 800-99802 | Decal | Decalque | Label | 1 | 1 |
| 15 | 800-99942 | Decal | Decalque | Label | 1 | 1 |
| 16 | 800-21310 | Decal | Decalque | Label | 1 | 1 |
| 17 | 800-99944 | Decal | Decalque | Label | | |
| 17 | 800-99945 | Decal | Decalque | Label | | 1 |
| 18 | 800-99969 | Decal | Decalque | Label | 1 | 1 |
| 19 | 800-99967 | Decal | Decalque | Label | 1 | |
| 19 | 800-99968 | Decal | Decalque | Label | 1 | |
| 20 | 800-99803 | Decal | Decalque | Label | 1 | |
| 20 | 800-99804 | Decal | Decalque | Label | | 1 |

# www.BelleGroup.com


Belle Group Head Office
Sheen, nr. Buxton
Derbyshire. SK17 OEU GB.
Tel: +44 (0)1298 84000
Fax: +44 (0)1298 84722
email: sales@belle-group.co.uk

Belle Group France
70, av du Général de Gaulle
94022 Creteil, Cedex. FRANCE
Tel: +33 (0) 1 49 81 68 32
Fax: +33 (0) 1 43 39 94 40
Ventes : 0800 902 461
SAV : 0800 905 336 SAV Fax : 0800 909 895

Belle Equipos SL
Calle Doctor Calero Cial 19, Local 22
28220 Majadahonda
Madrid, Spain
Tel: +34 (0) 91 636 2043
Fax: +34 (0) 91 634 1535
email:belleequipos@belleequipos.com

Belle Group Deutschland
Husumer Straße 45 a,
D-33729,
Bielefield
Deutschland
Tel : +49(0) 5217 707505
Fax : +49 (0) 5217 707506
Sales: 0800 1808069
Spares: 0800 1816673

Belle Poland sp. z.o.o.
96-200 Rawa Mazowiecka
Ul. Mszczonowska 36, Polska
Tel: +48 (0) 46 8144091
Fax: +48 (0) 46 8144700

Belle Group Portugal
Rua Laura Alves, 225, 2° F
2775-116 Parede
Portugal
Tel: +35 1 (21) 453 59 91
Fax: +35 1 (21) 453 59 91

Belle Group Netherlands
Tel: 0800 249861

Belle Group Belguim
Tel: 0800 80295

Belle Group Austria
Tel: 0800 291544

Belle Group Russia
64 Nevsky pr.
St, Petersburg
Russia
Tel : +7(812)314-81-34
Moscow : +7(495)589-64-32

Belle Group South East Asia
21, Jalan Ara AD 7/3B,
Pandar Sri Damansara
S2200 Kuala Lumpar, Malaysia
Tel: +60 (0) 3 62721678 / +60 (0) 3 6272 9308
Fax: +60 (0) 3 6272 9528

Belle Group (GB), Shanghai Office
Room 213, Zhonghuang Building,
1007 Zhongshan Nan Er Road,
Xuhui, Shanghai 200030 China
Tel: 00 - 86 - 21 - 5461 5228
Mobile: 00 - 86 - 133 8172 2653
Fax: 00 - 86 - 21 - 5461 5369
email: morgan.liu@bellegroup.com.cn

Belle Group Inc
3959 Electric Rd Roanoake
Suite 360
VA 24018. USA.
Tel: +1.540.345.5090
Fax: +1.540.345.5091
Toll free 866 540 5090
e-mail: sales@bellegroup.net


Belle Parts CENTRE


Belle Group Parts Centre
Unit 5, Bode Business Park
Ball Haye Green, Leek,
Staffordshire,
ST13 8BW
Tel: 44+ 1538 380000
Fax: 44+ 1538 380038